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U.S. ARMY

- COMMITTED TO PROTECTION OF THE ENVIRONMENT -

Boundary Control Systems
Assessment Remedial Investigation
Draft Final Report
(Version 2-1)
Volume III

December 1988 Contract Number DAAK11-84-D-001b Task Number 25

Environmental Science And Engineering, Inc.

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THE OBJECTIVES OF TASK 25 ARE TO:  1. MONITOR GROUND WATER LEVELS AND CONTAMINANT CONCENT ALLUVIAL AND DERVER AQUIFERS NEAR THE NORTH AND NORTHWEST I  2. DEFINE MIGRATION PATHWAYS  3. PROVIDE WATER QUALITY AND HYDROLOGIC DATA FOR THE OBOUNDARY SYSTEMS.  THIS DRAFT FINAL REPORT PRESENTS AN INTERPRETATION OF THE	BOUNDARIES  OPEPATION OF THESE
HYDROGEOLOGICAL CONDITIONS NEAR THE BOUNDARIES AND A BRIEF SAMPLING PROGRAMS.	
THE MAIN TEXT IS DIVIDED INTO THE FOLLOWING SECTIONS: 1. INTRODUCTION 2. PRESENTATION OF DATA COLLECTION METHODOLOGY, WELL 1	INSTALLATION, AND
MONITORING NETWORKS  3. DESCRIPTION OF ALLUVIAL AND DENVER FORMATION GEOLOGICAL AND DENVER FOR	γγ
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ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

PREPARED BY

#### PREPARED FOR

Office of Program Manager
Rocky Mountain Arsenal Contamination Cleanup

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APPENDIX B
TASK 25 SUPPORTING MAPS, HYDROGRAPHS, AND
CONTAMINANT DISTRIBUTION FIGURES

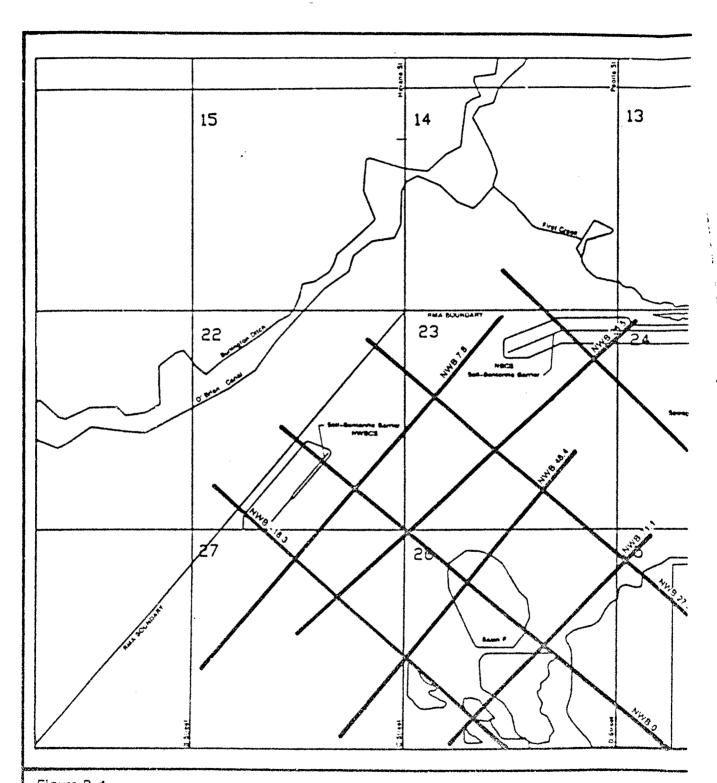
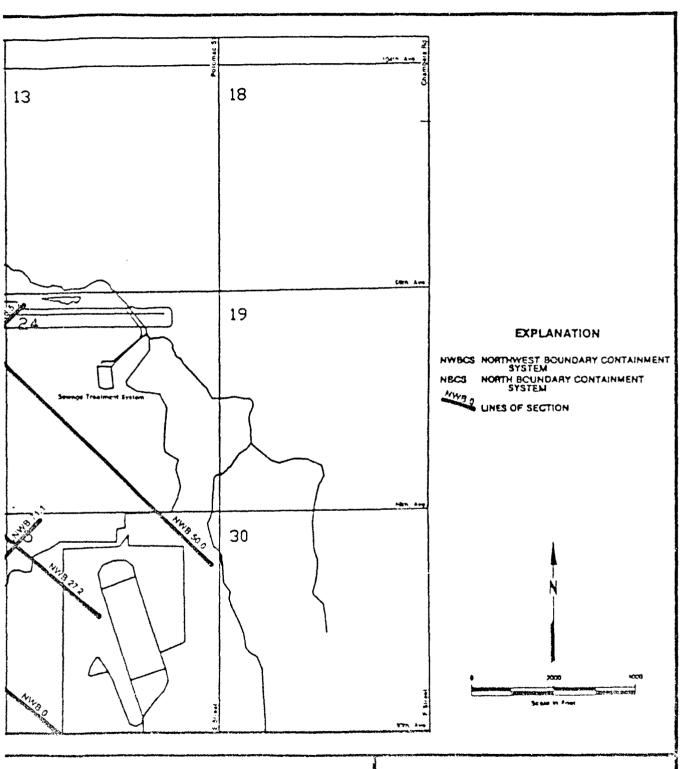


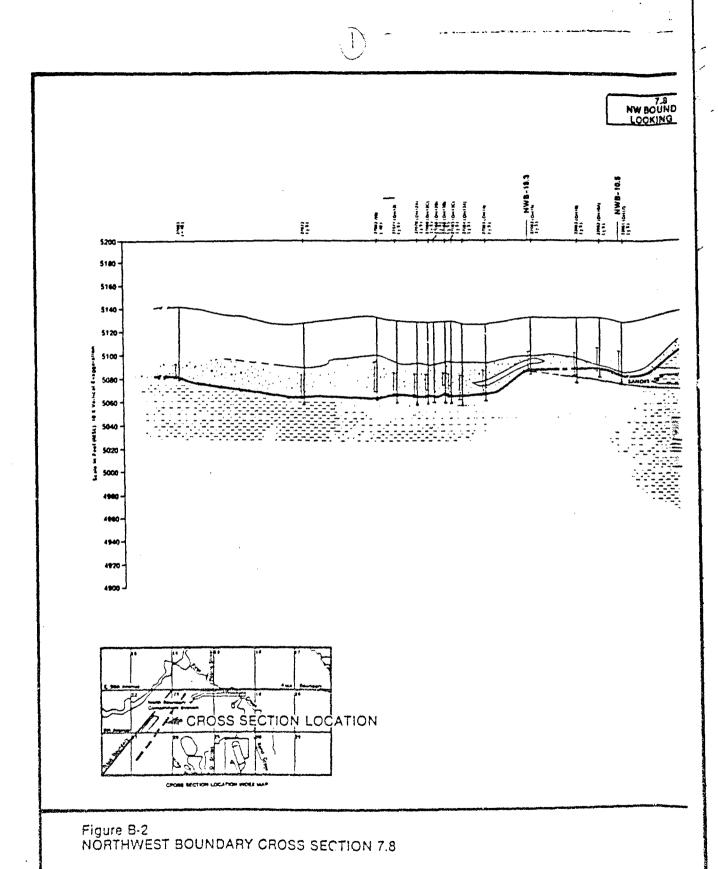
Figure B-1
CROSS SECTION LOCATION MAP

SOURCE, ESE, 1988

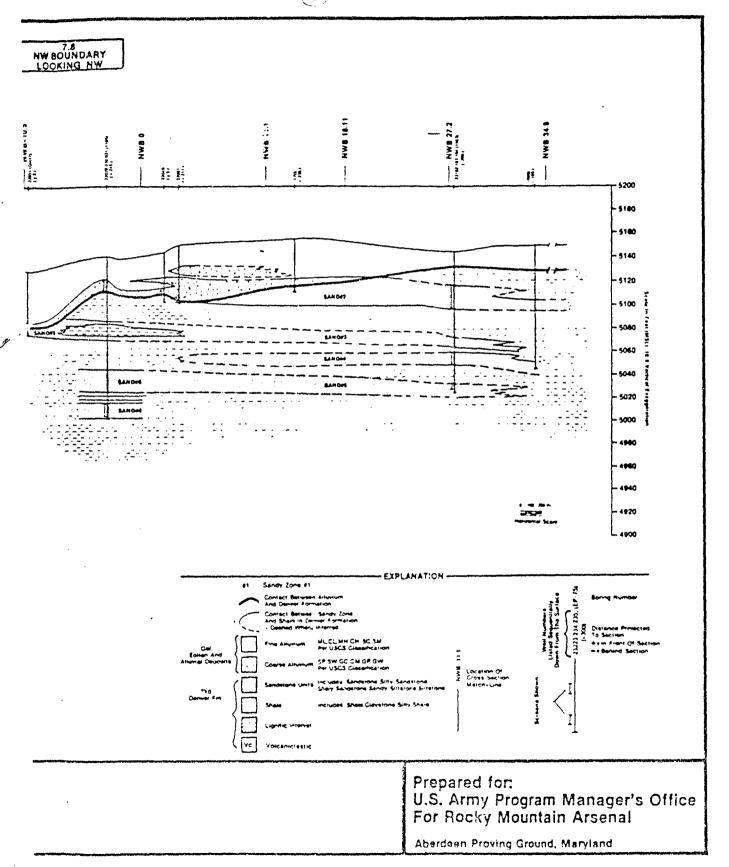


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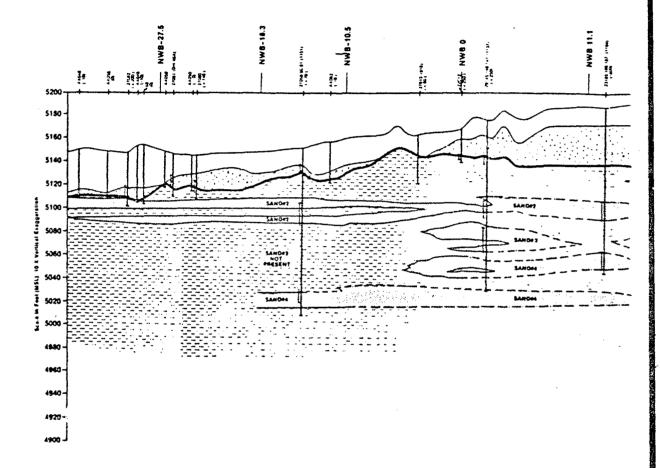
Abenteen Proving Ground, Maryland



SOURCE:ESE, 1988







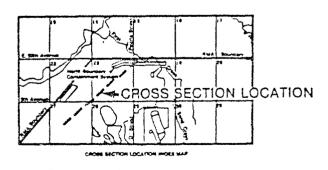
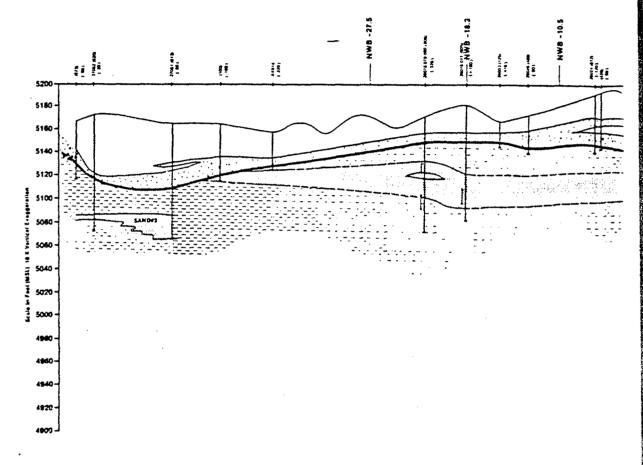


Figure B-3 NORTHWEST BOUNDARY CROSS SECTION 26.5

SOURCE:ESE. 1988

28.5 YRADNUOE WN WN DNIXOOL - 5180 5000 4940 4920 Sandy Zone #1 Orstance Projected To Section that Front Of Section maldehind Section Lignitic interes Volcaniciative Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal Aberdeen Proving Ground, Maryland





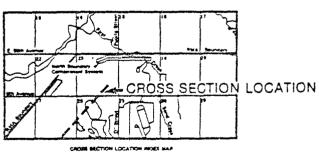
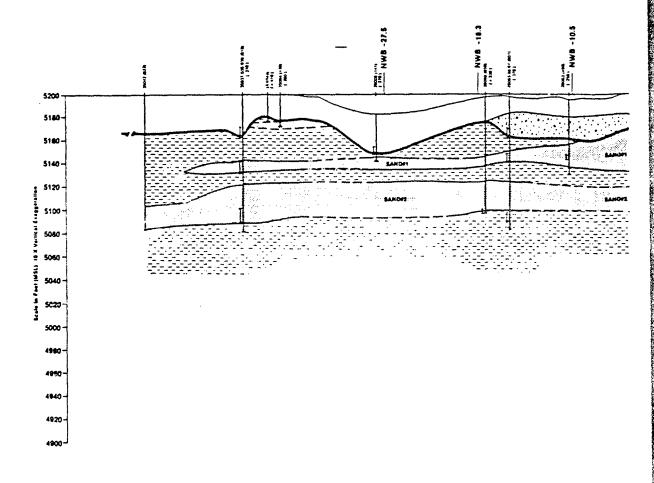


Figure B-4 NORTHWEST BOUNDARY CROSS SECTION 48.4

SOURCE: ESE, 1988

NW BOUNDARY LOOKING NW BASIN F 5200 5180 - 5160 5120 5040 5000 4980 Sandy Zone #1 Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal Aberdeen Proving Ground, Maryland

71.1 NW BOUNDA LOOKING N



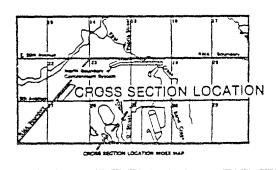


Figure 8-5 NORTHWEST BOUNDARY CROSS SECTION 71.1

71.1 NW BOUNDARY LOOKING NW Sandy Zone #1 Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal

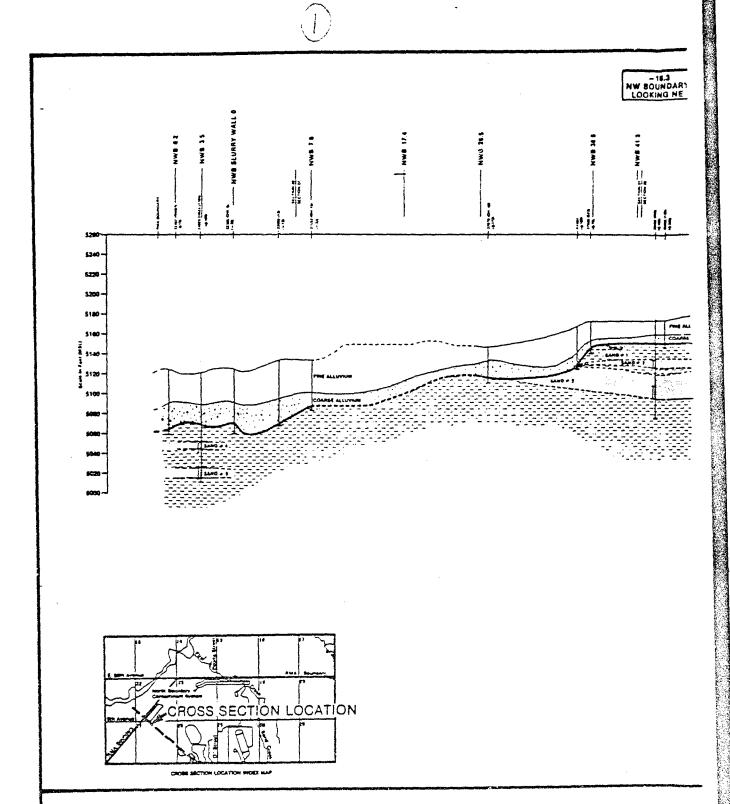
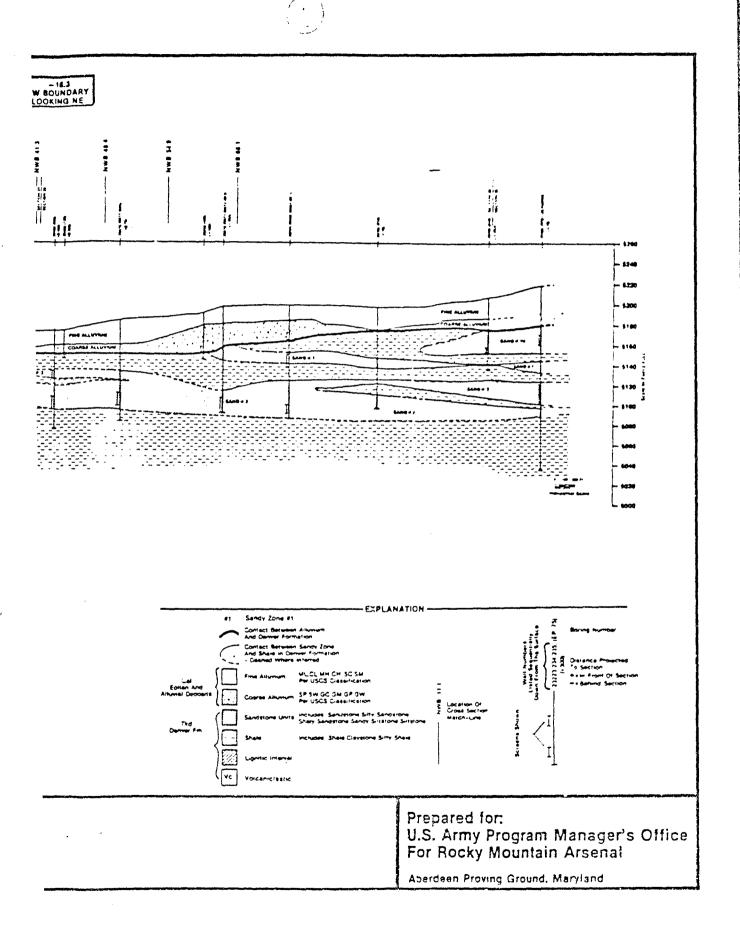
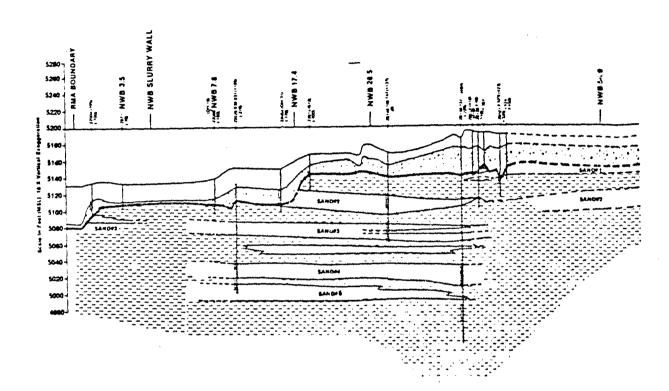


Figure B-6 NORTHWEST BOUNDARY CROSS SECTION -18.3



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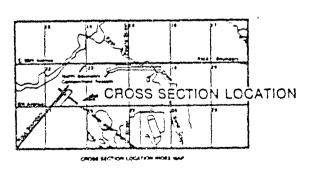
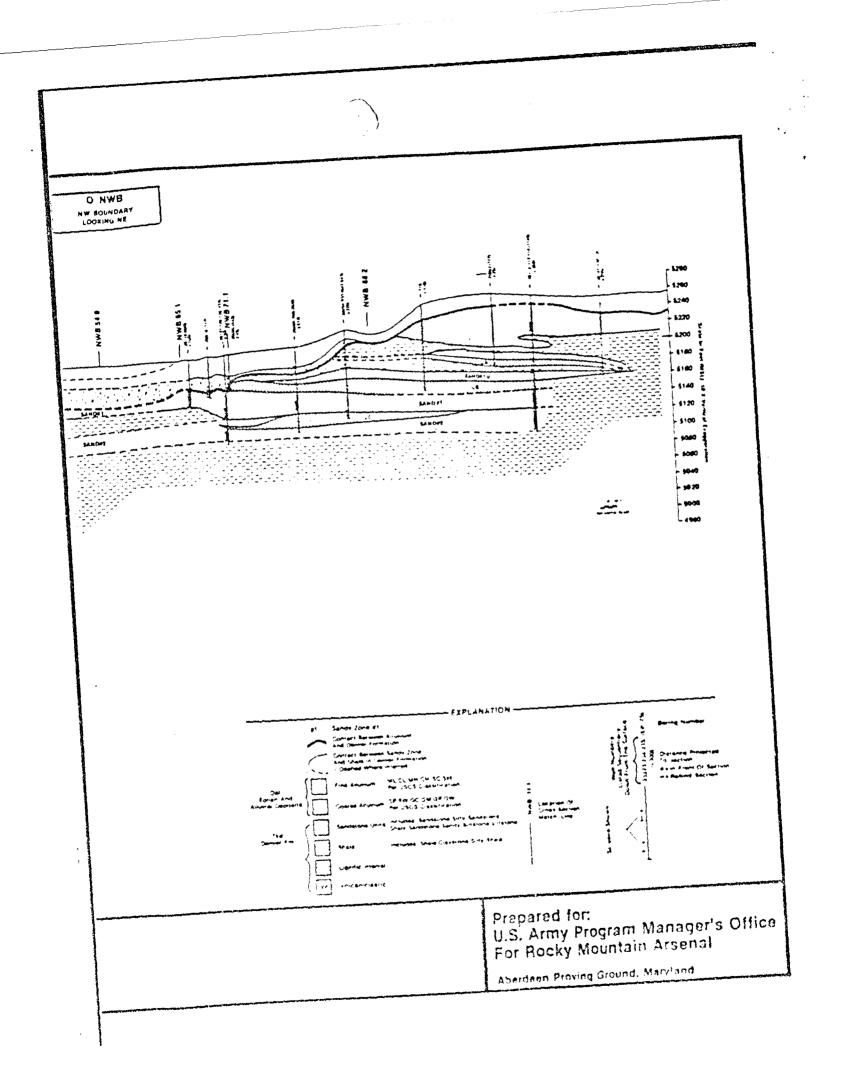
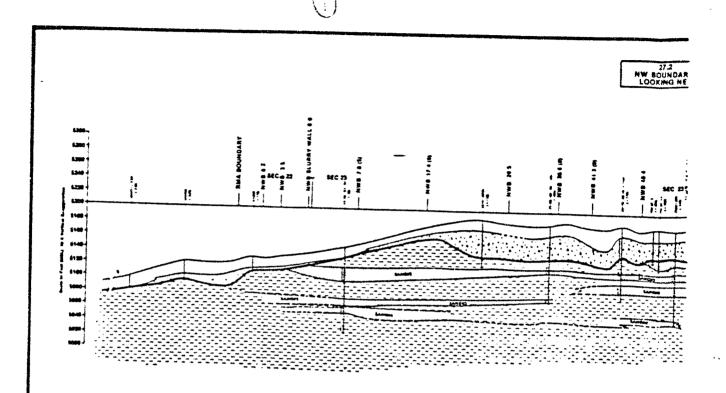


Figure 8-7 NORTHWEST BOUNDARY CROSS SECTION 0.0

SOURCE ESE, 1988





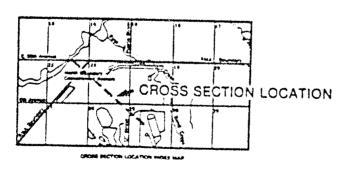
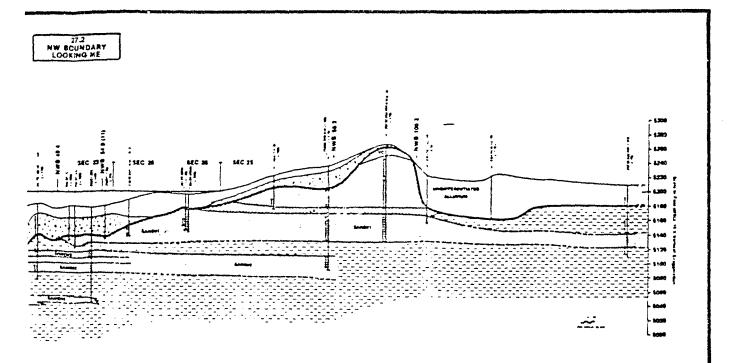
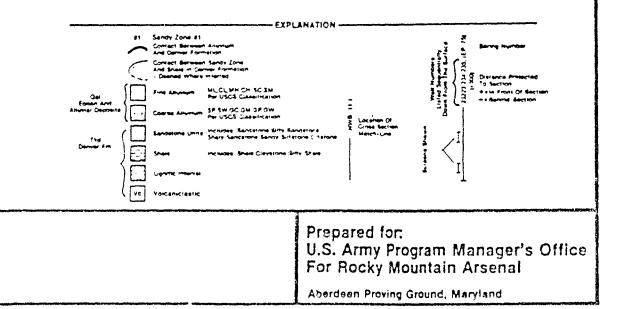


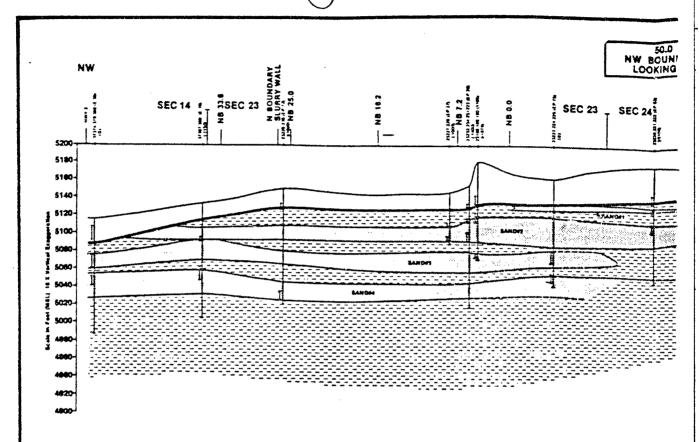
Figure B-8 NORTHWEST BOUNDARY CROSS SECTION 27.2











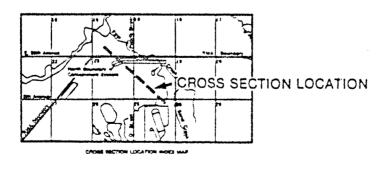
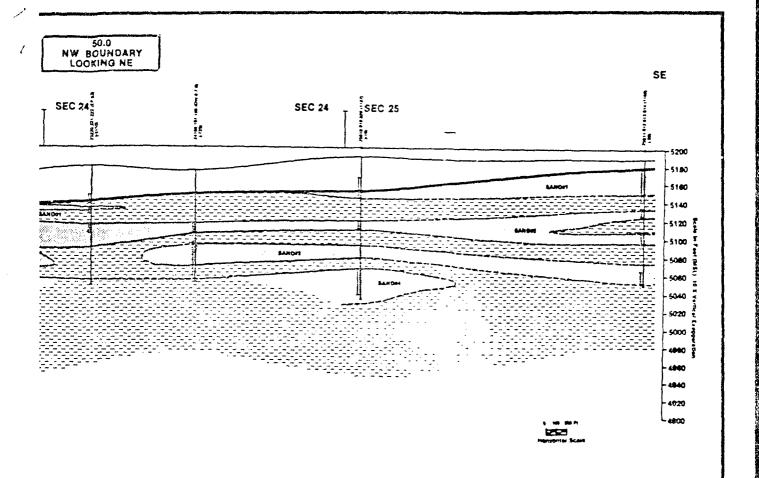
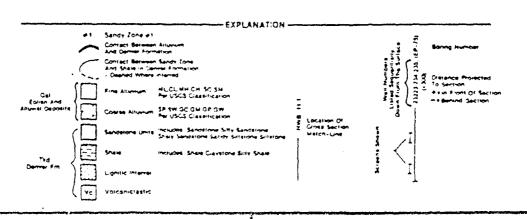


Figure B-9 NORTHWEST BOUNDARY CROSS SECTION 50.0







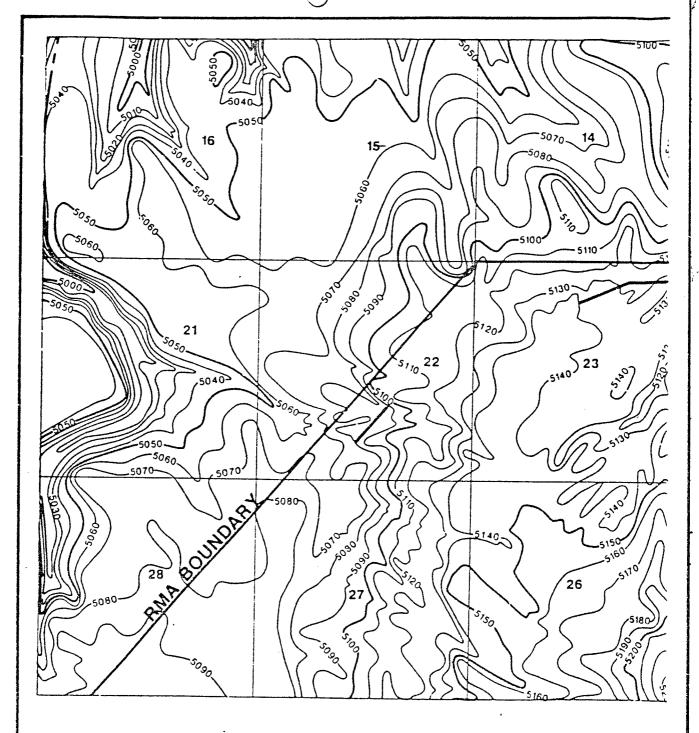
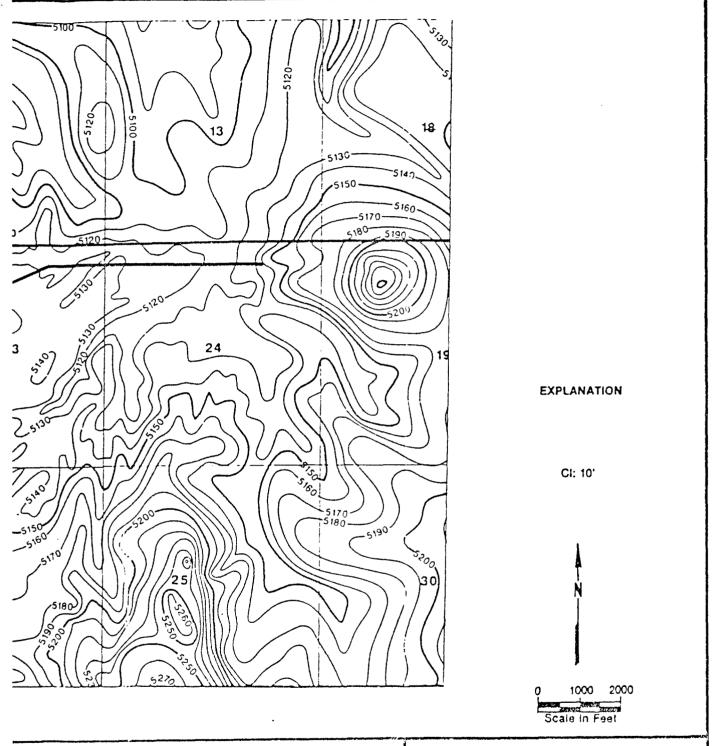


Figure 8-10 CONTOUR MAP TOP OF THE DENVER FORMATION





Aberdeen Proving Ground, Maryland

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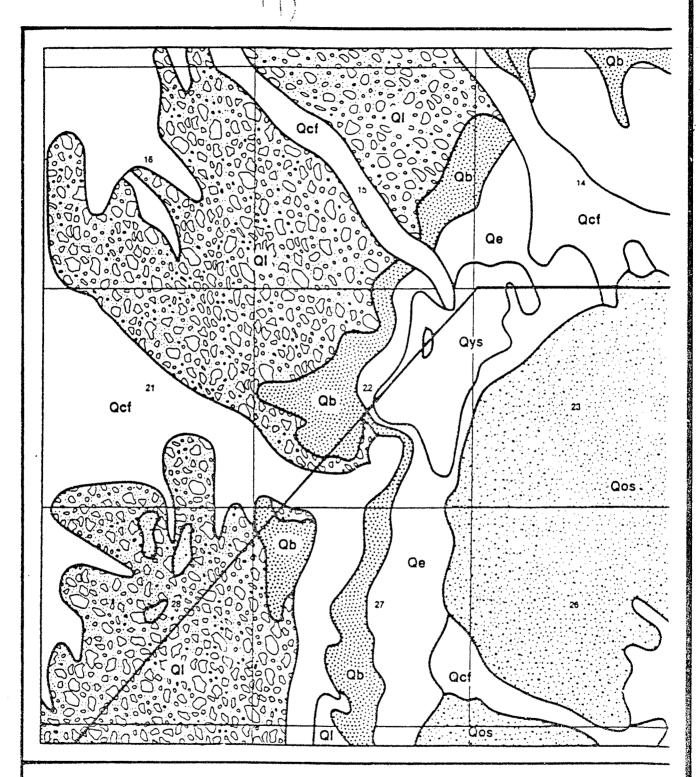
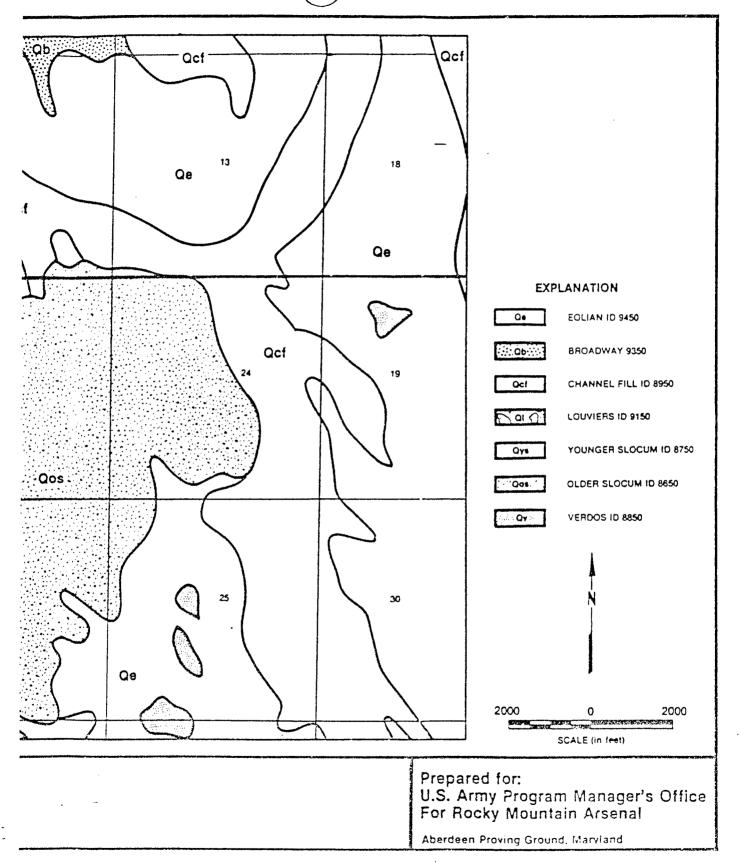


Figure B-11 QUATERNARY SEDIMENTS IN CONTACT WITH BEDROCK

SOURCE: MKE, 1988



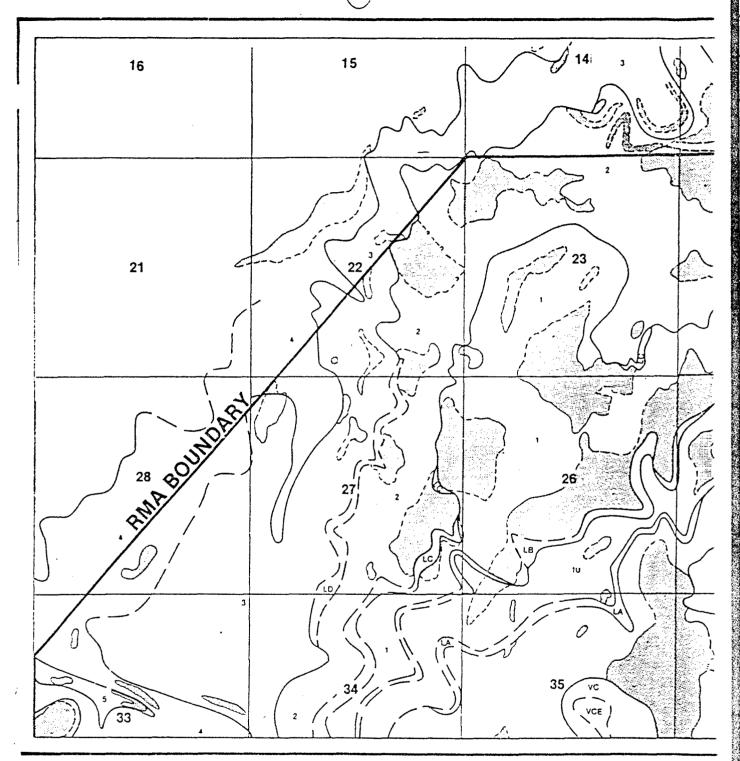
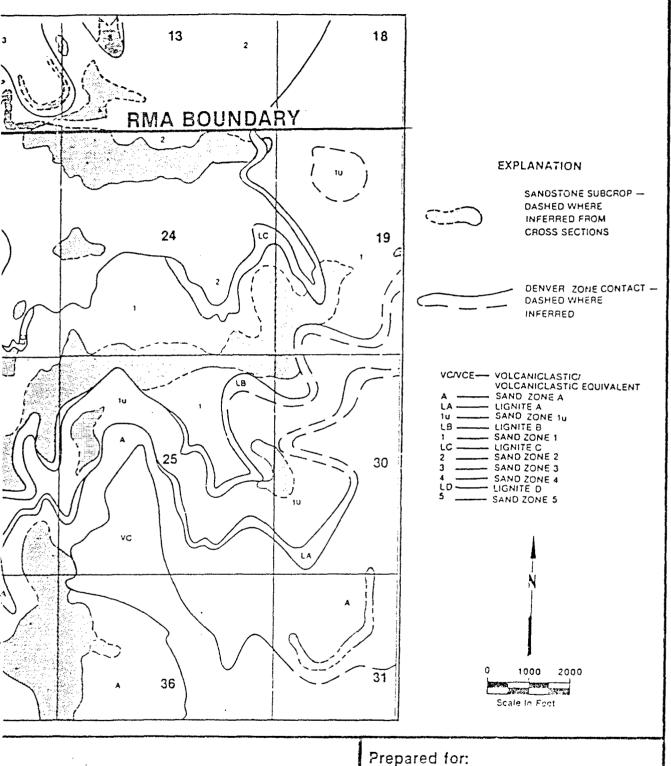


Figure 8-12 DENVER FORMATION SUBCROP MAP



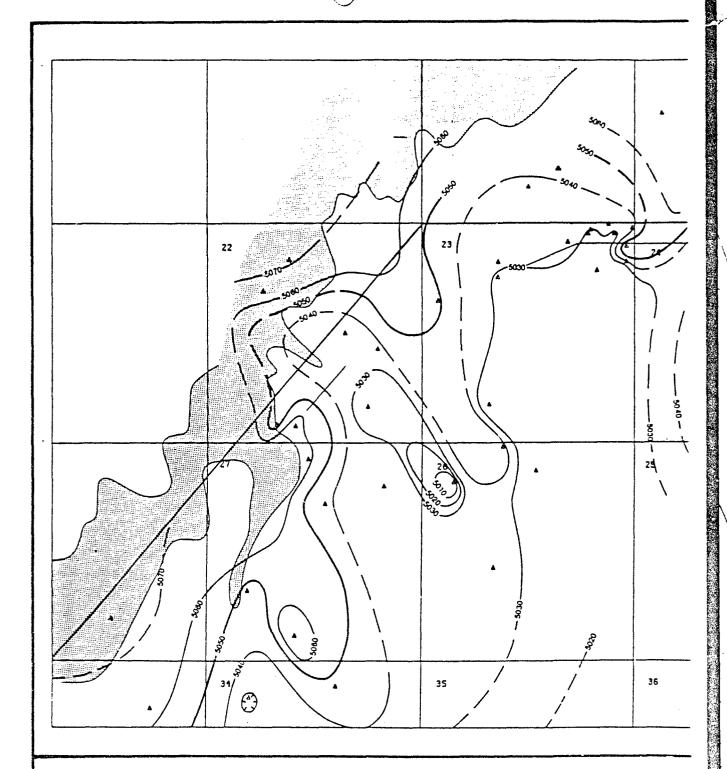
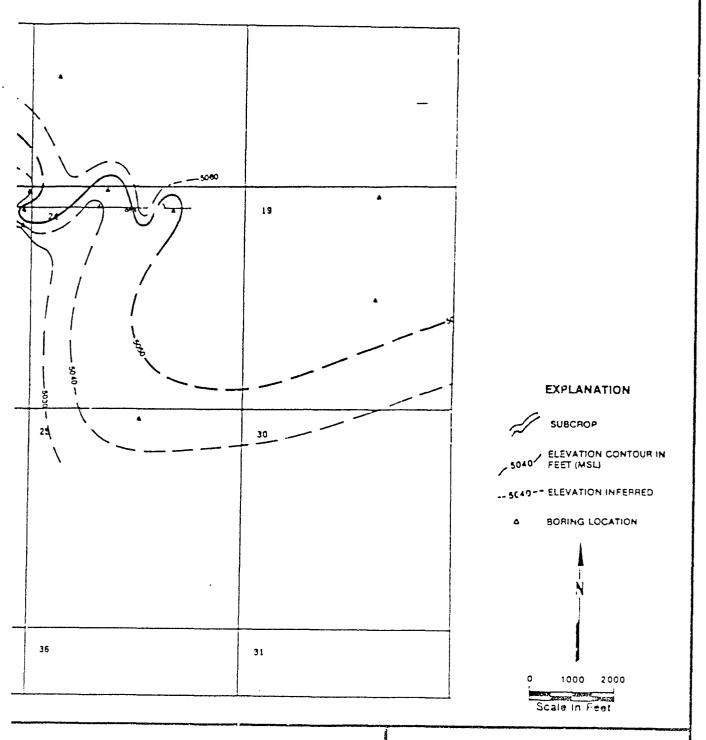


Figure B-13 BASE ELEVATION CONTOUR MAP DENVER FORMATION SAND ZONE 4



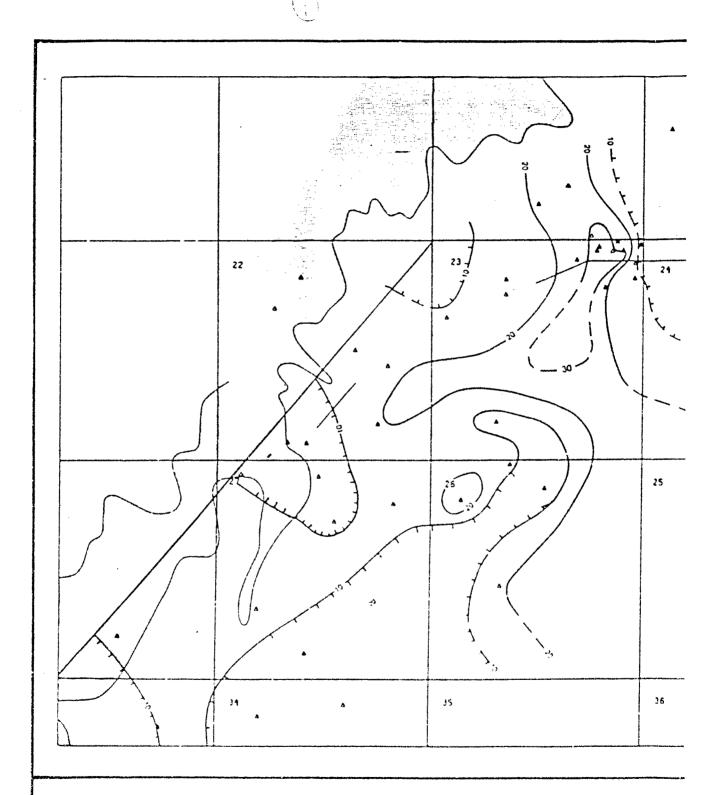
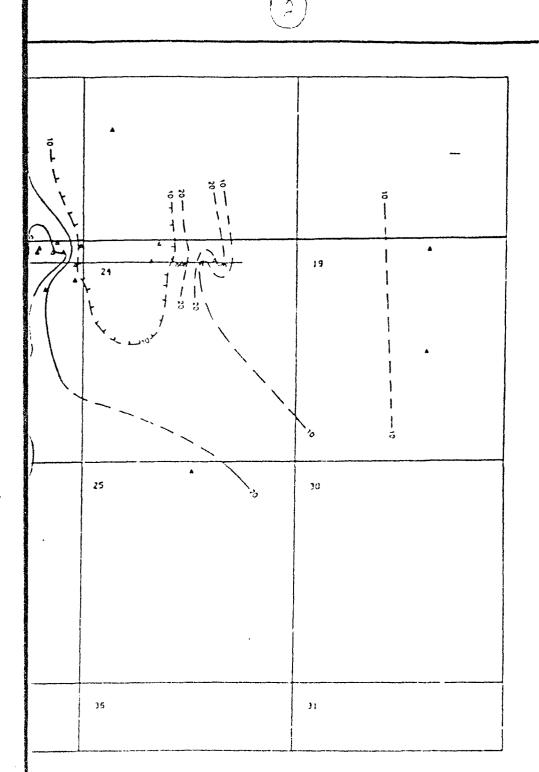


Figure B-14 NET SAND ISOPACH CONTOUR MAP DENVER FORMATION SAND ZONE 4



## EXPLANATION

SUBCROP

10- ISOPACH CONTOUR (FEET)

10- ISOPACH INFERRED

A BORING LOCATION

1000 2000

Scale in Feet

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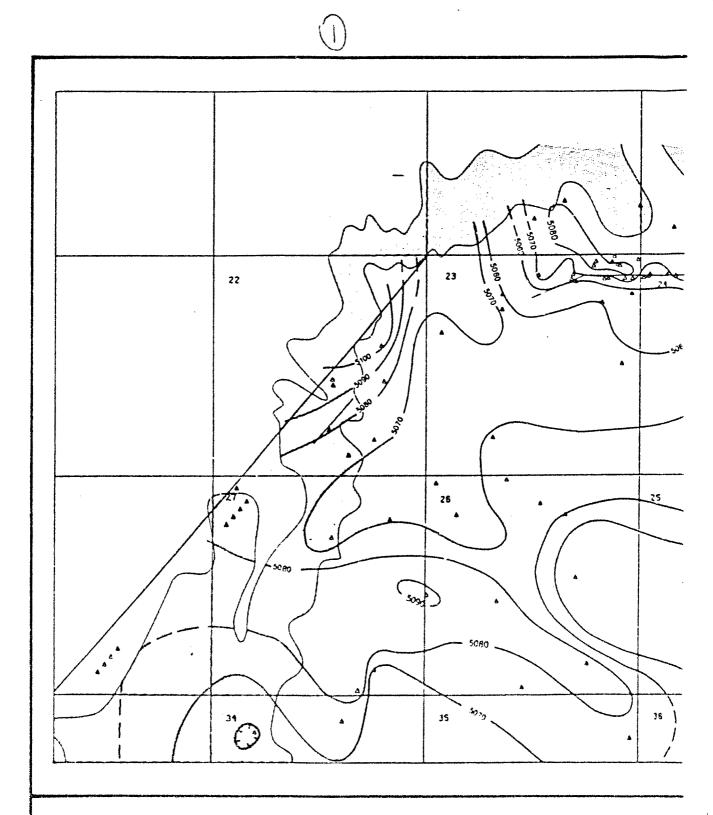
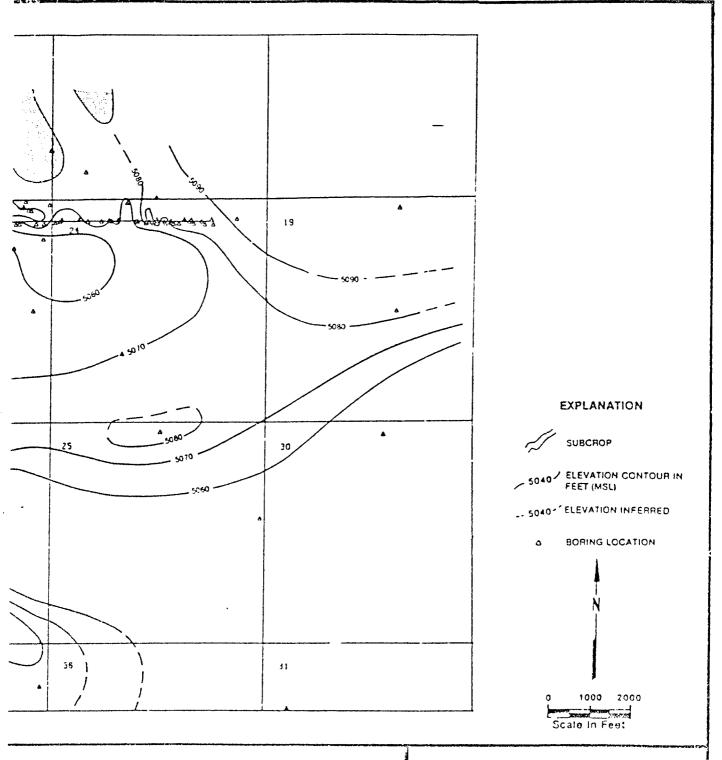


Figure B-15 BASE ELEVATION CONTOUR MAP DENVER FORMATION SAND ZONE 3

SQURCE, ESE, 1988





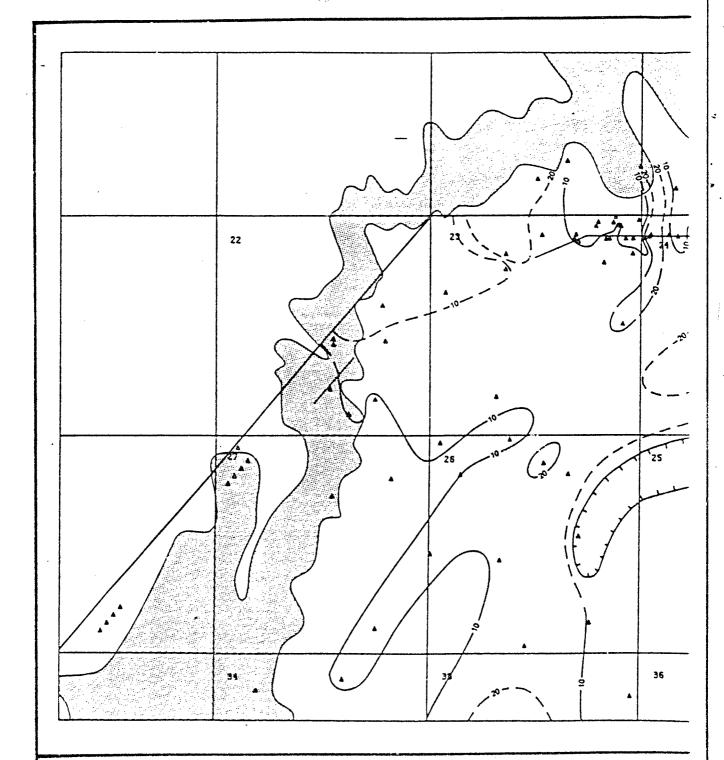
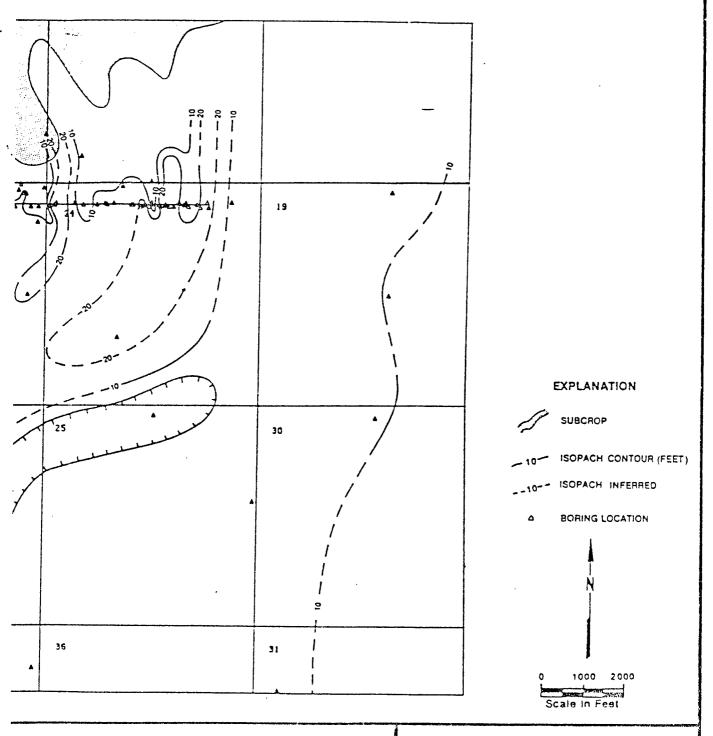


Figure 8-16 NET SAND ISOPACH CONTOUR MAP DENVER FORMATION SAND ZONE 3



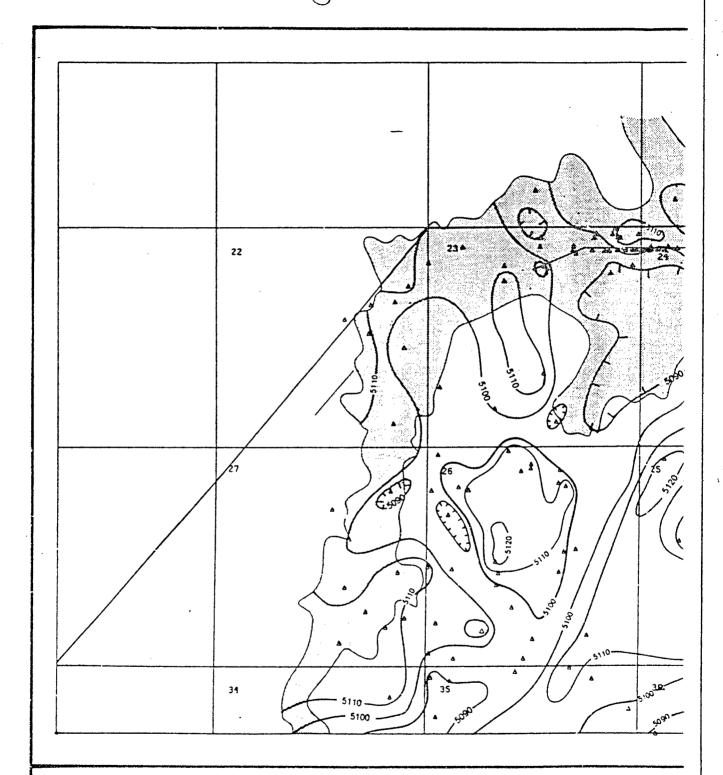
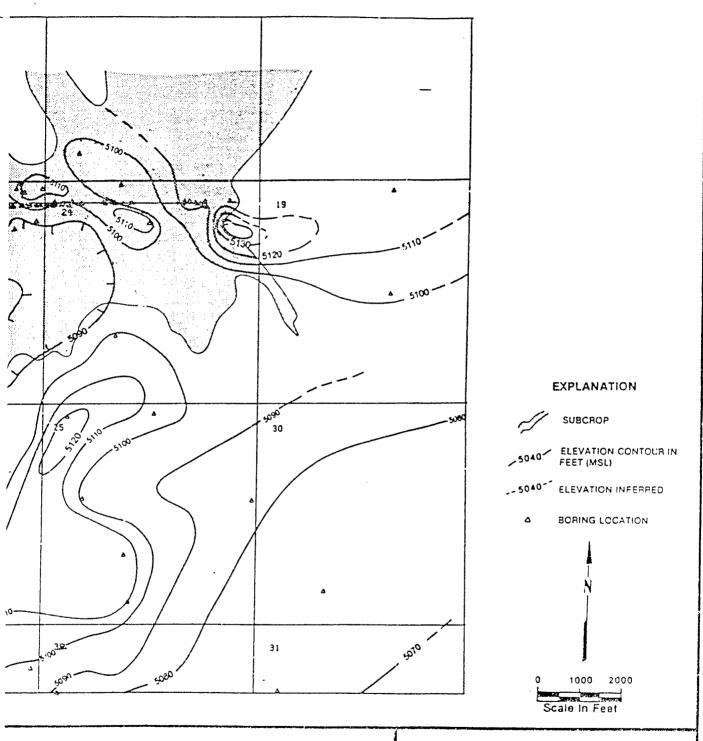


Figure B-17
BASE ELEVATION CONTOUR MAP
DENVER FORMATION SAND ZONE 2



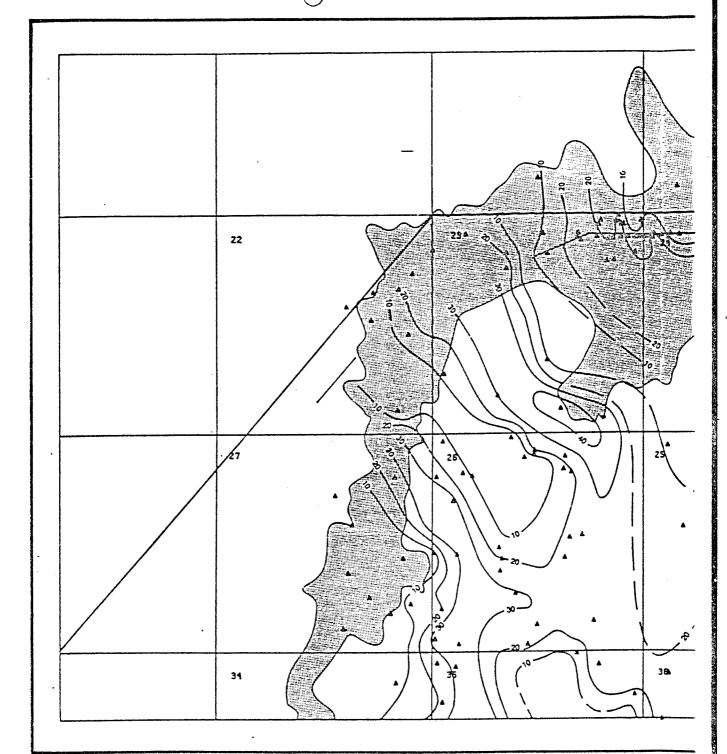


Figure B-18 NET SAND ISOPACH CONTOUR MAP DENVER FORMATION SAND ZONE 2

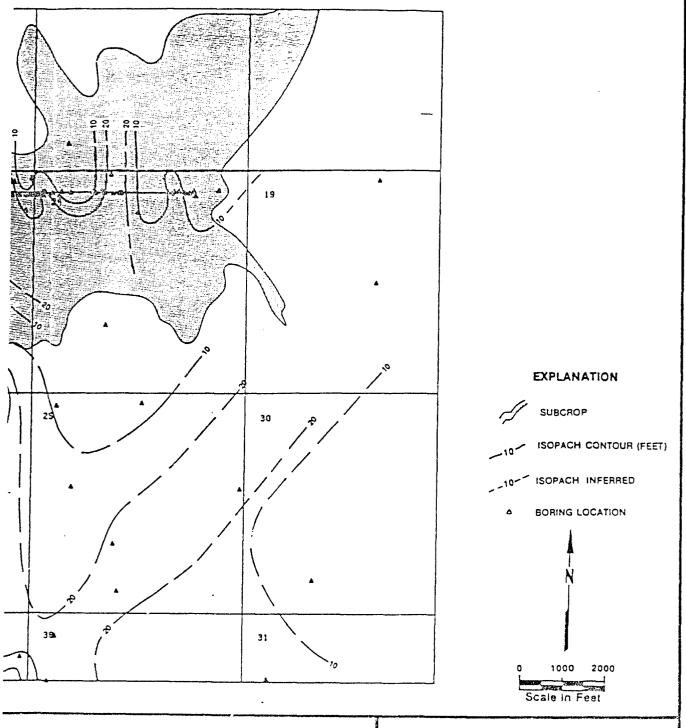
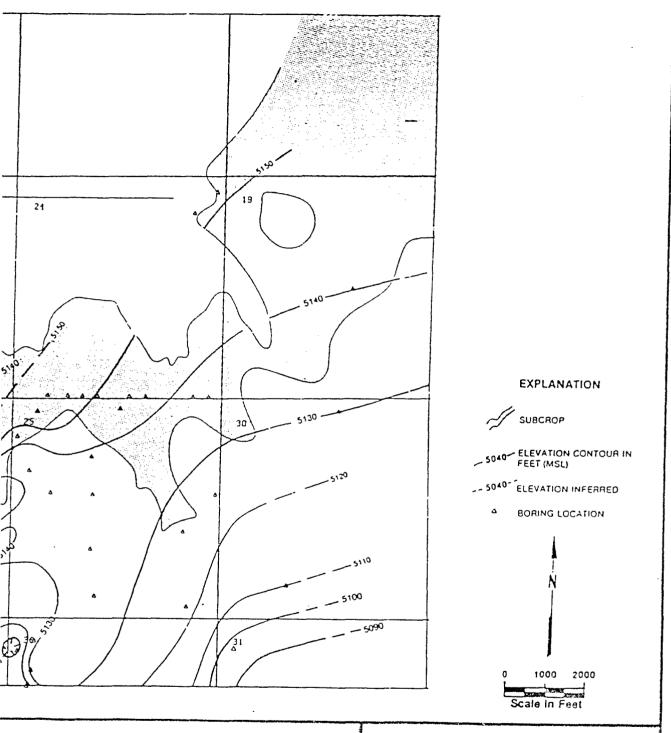


Figure B-19 BASE ELEVATION CONTOUR MAP DENVER FORMATION SAND ZONE 1





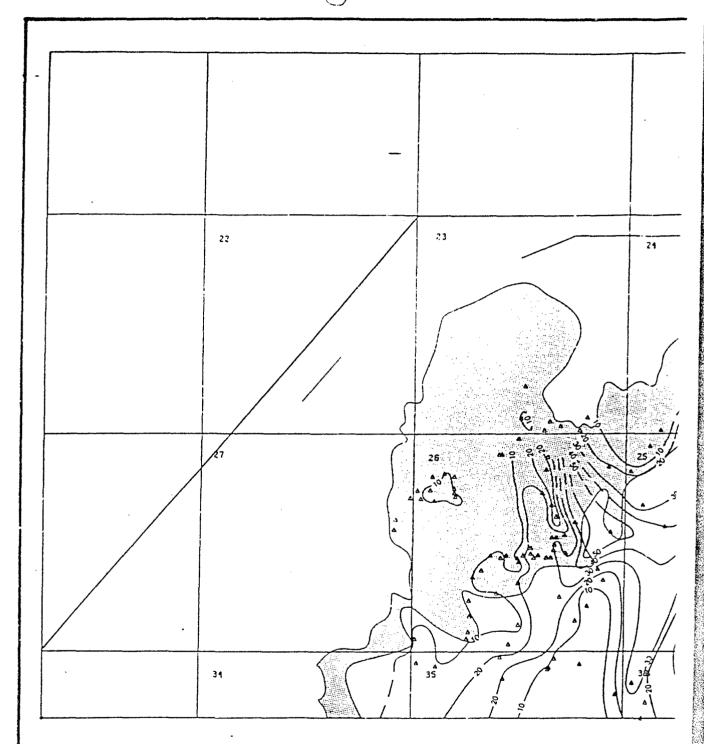


Figure B-20 NET SAND ISOPACH CONTOUR MAP DENVER FORMATION SAND ZONE 1

21 EXPLANATION SUBCROP ISOPACH INFERRED BORING LOCATION

10- ISOPACH CONTOUR ( FEET)

2000

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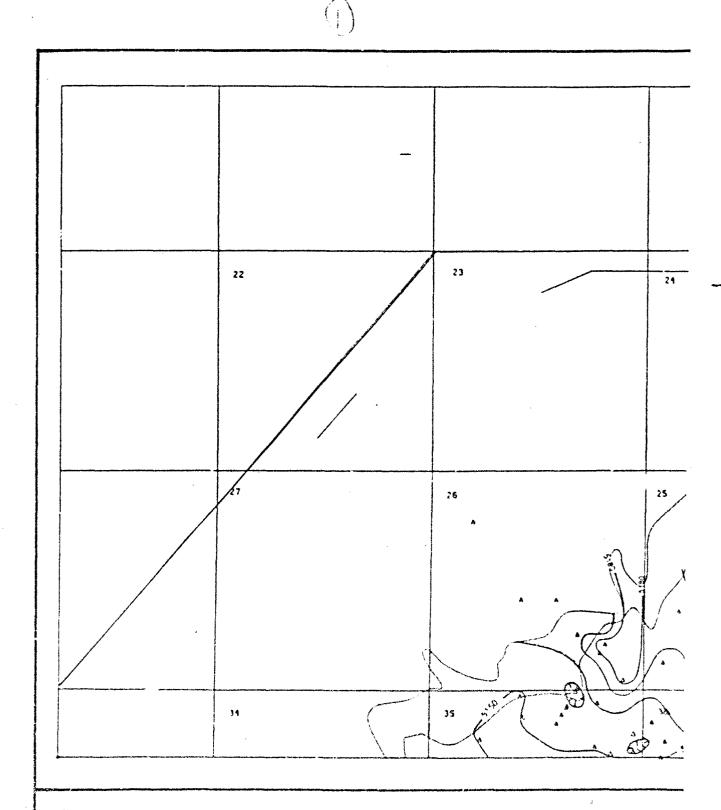


Figure B-21 BASE ELEVATION CONTOUR MAP DENVER FORMATION SAND ZONE 1U

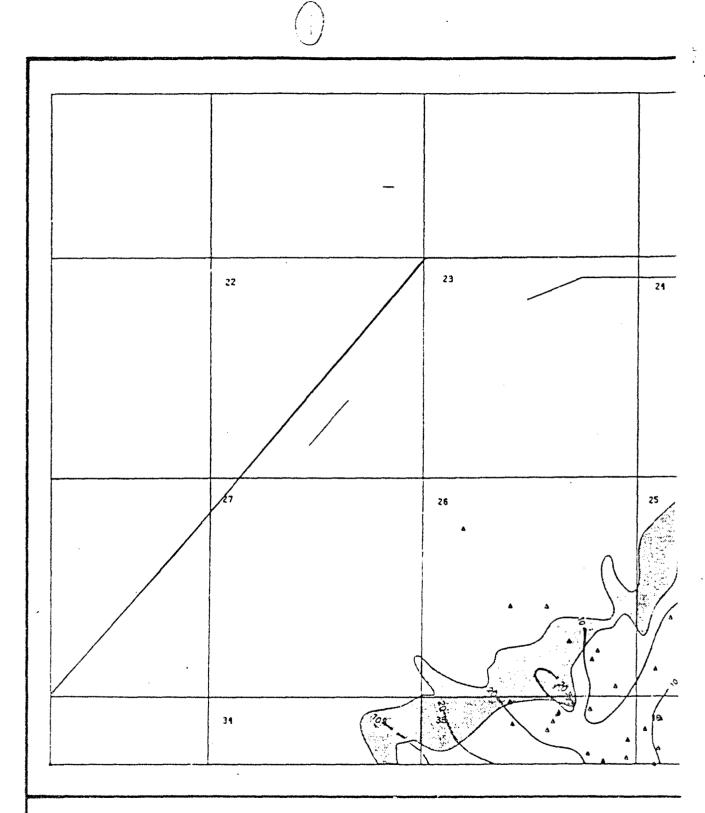
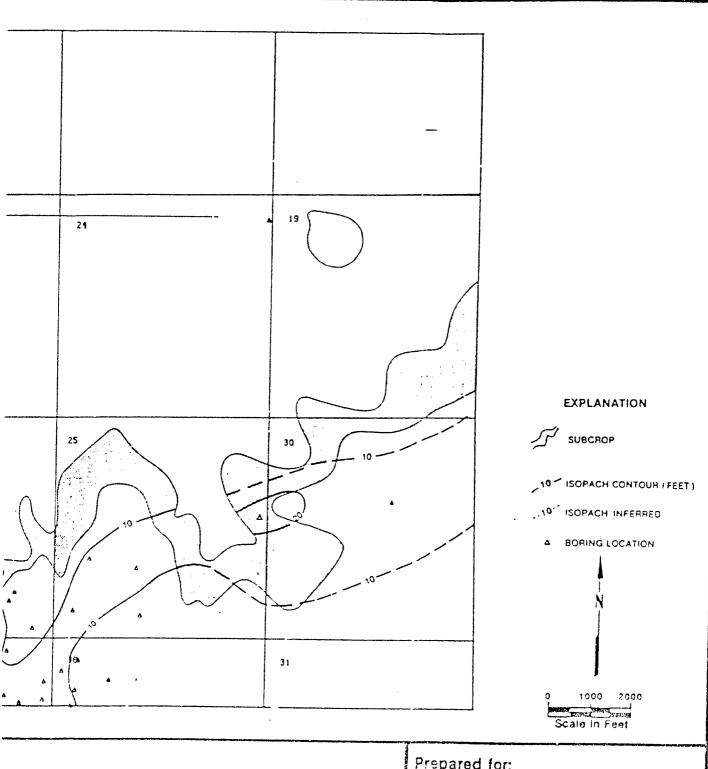


Figure 8-22 NET SAND ISOPACH CONTOUR MAP DENVER FORMATION SAND ZONE 1U

SOUPCE.ESE,1988





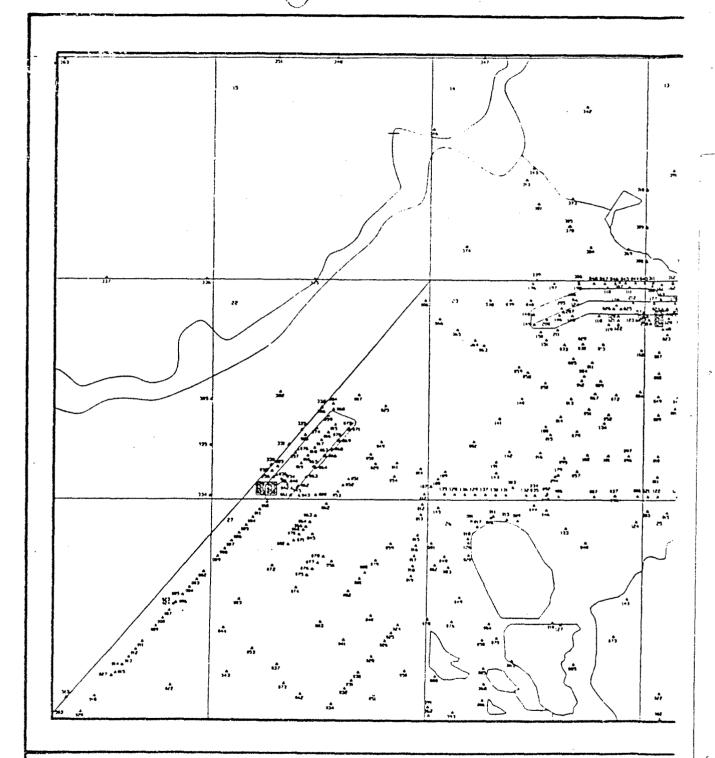
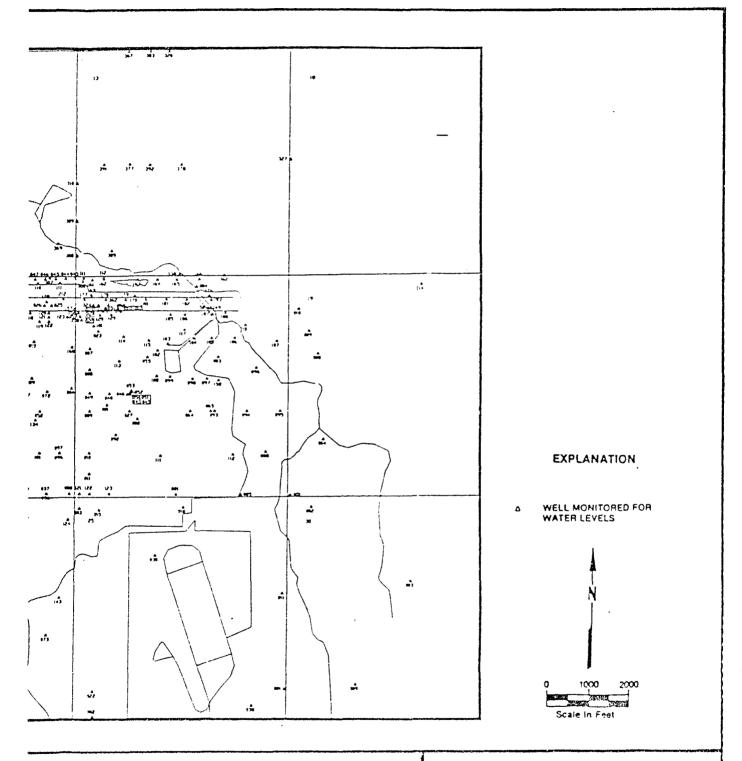


Figure B-23A ALLUVIAL MONITORING SITE LOCATIONS, WATER LEVEL NETWORK

SOUACE : ESE, 1988



Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal

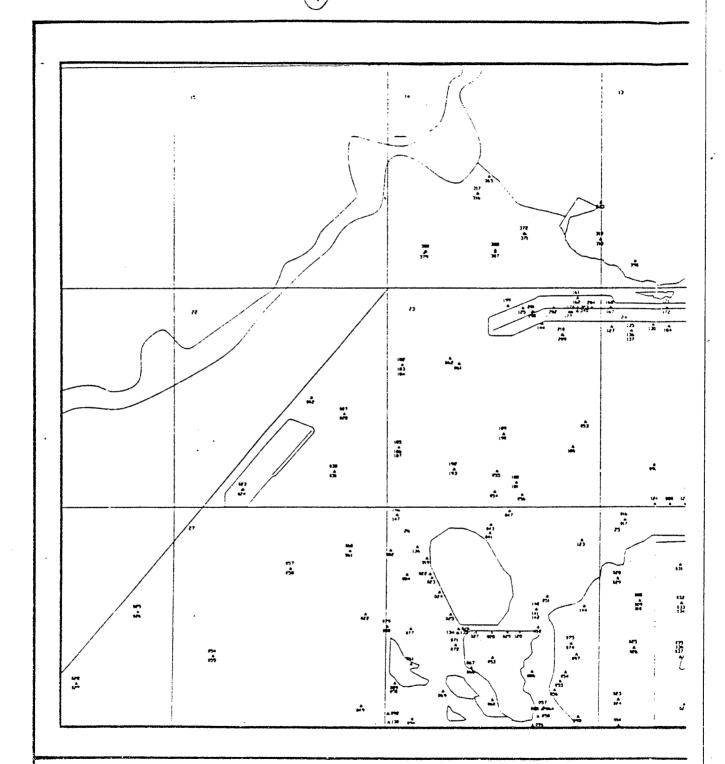
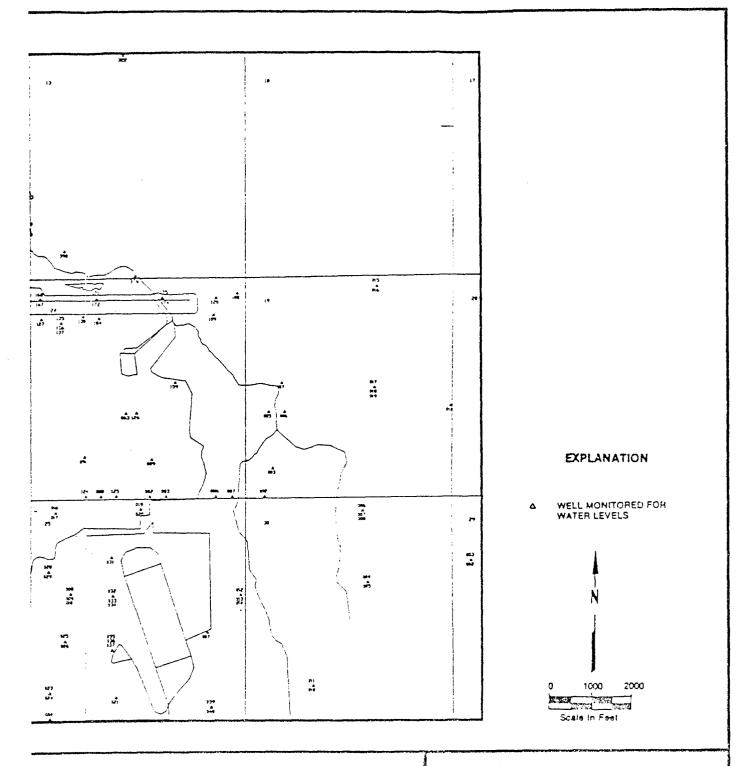


Figure B-23B DENVER MONITORING SITE LOCATIONS, WATER LEVEL NETWORK



Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal

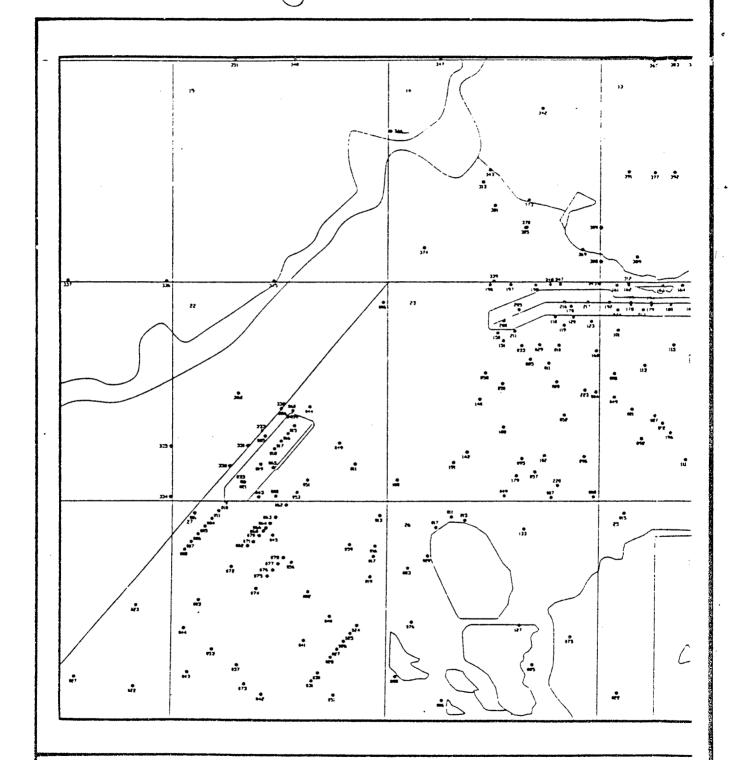
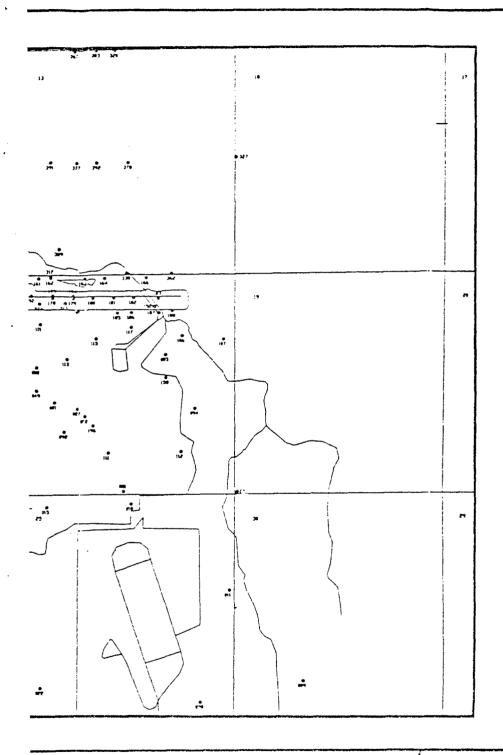


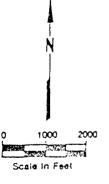
Figure B-24A ALLUVIAL MONITORING SITE LOCATIONS, WATER QUALITY NETWORK

SOURCE : ESE. 1988



## EXPLANATION

WELL MONITORED FOR WATER QUALITY



Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal



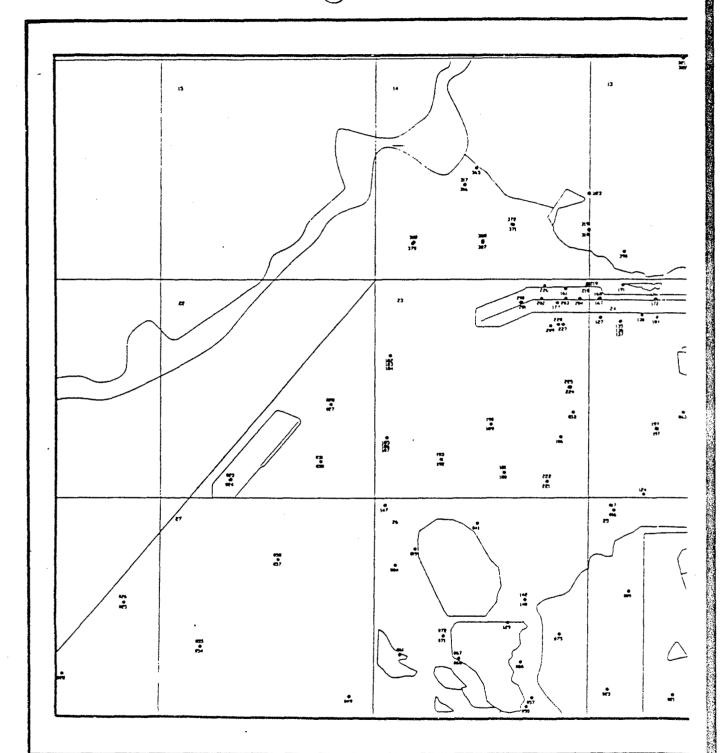
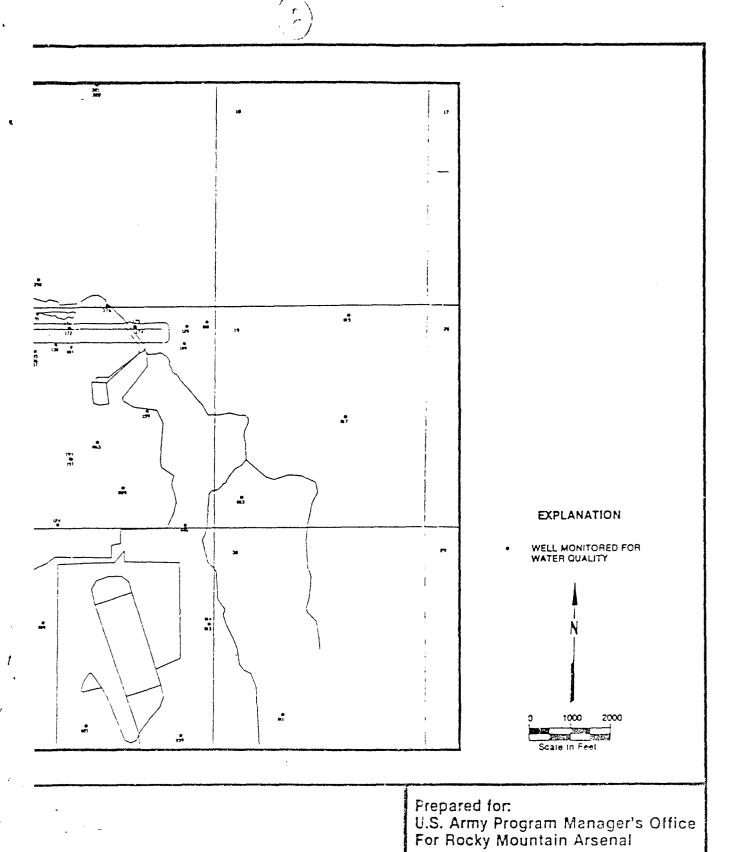


Figure B-24B DENVER MONITORING SITE LOCATIONS, WATER QUALITY NETWORK



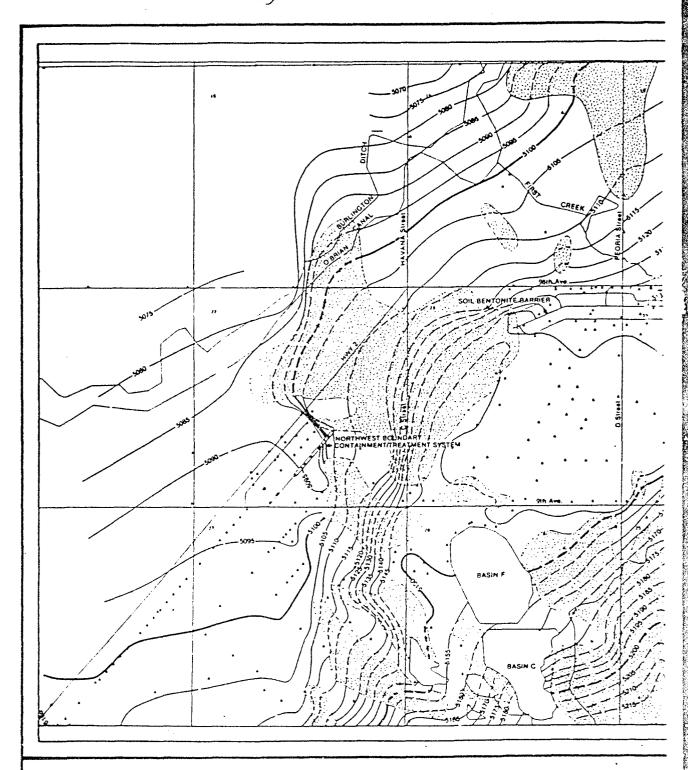
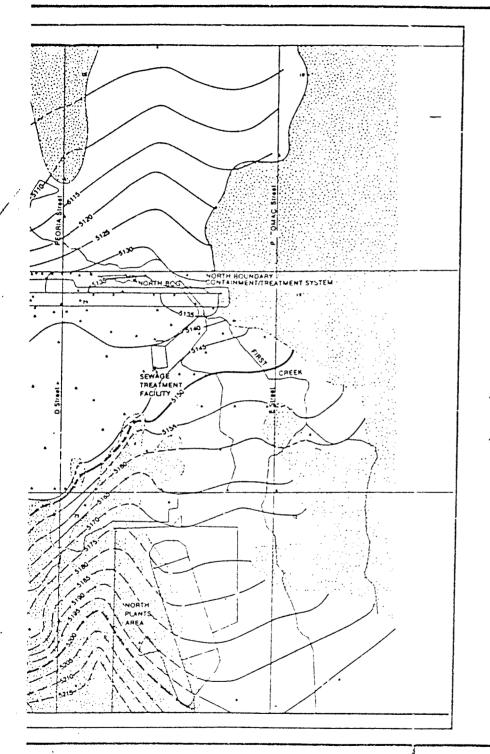


Figure B-25A WATER TABLE ELEVATION (FT, MSL) FIRST QUARTER FY 1987



## **EXPLANATION**

ALLUVIAL MONITORING WELL

5100 WATER TABLE ELEVATION CONTOUR

5100 WATER TABLE ELEVATION CONTOUR INTERVAL INFERRED

WATER LEVELS COLLECTED FALL 1986

UNSATURATED ALLUVIUM

0 1000 2000 Scale in Feet

Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal

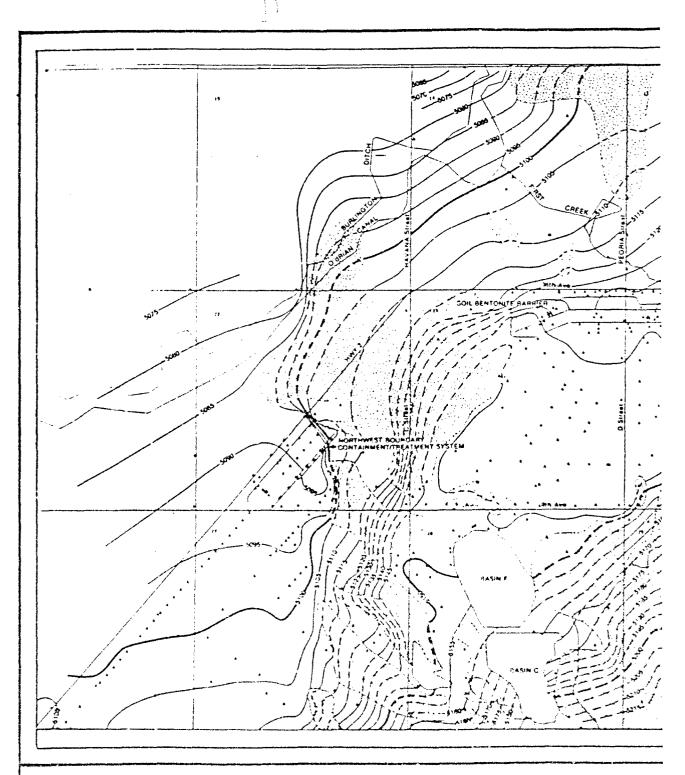
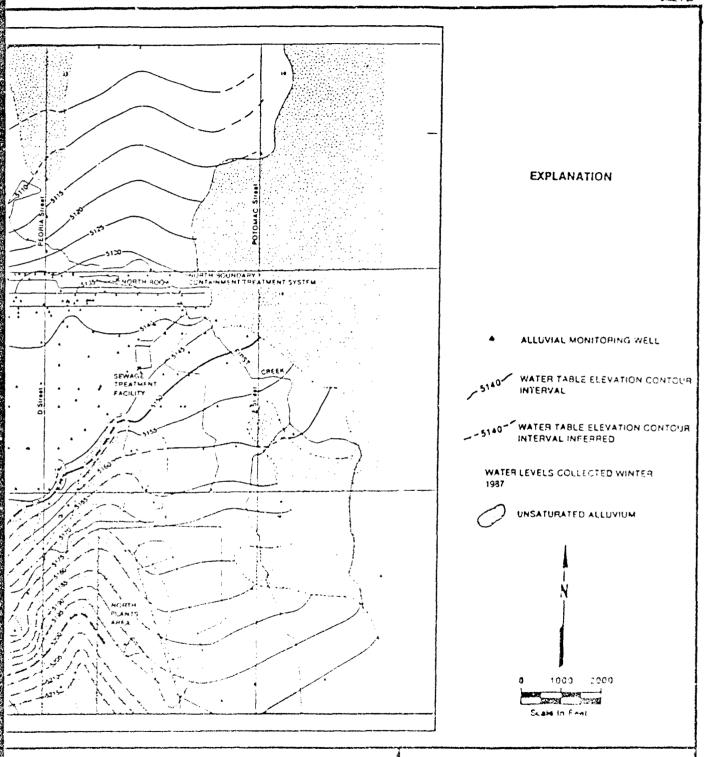


Figure B-25B WATER TABLE ELEVATION (FT. MSL) SECOND QUARTER FY 1987





Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenat



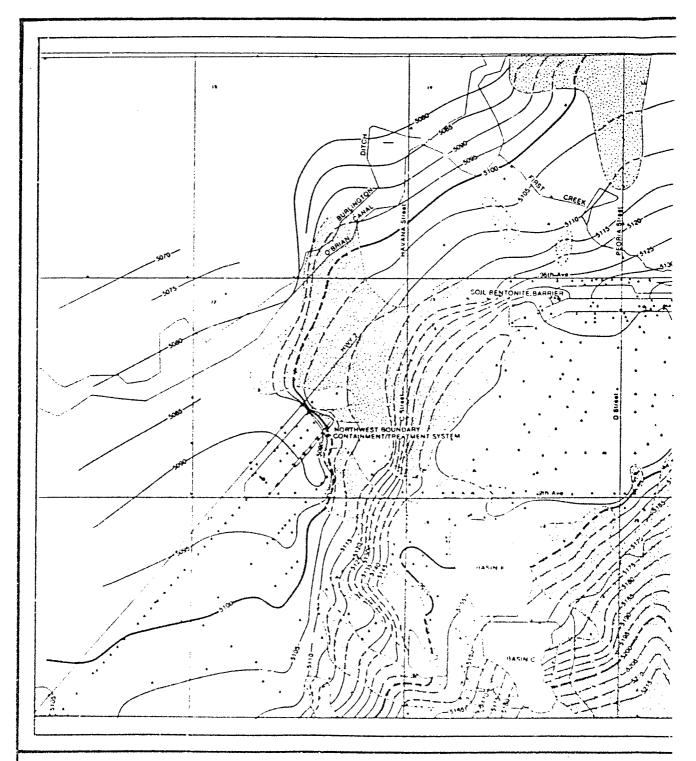
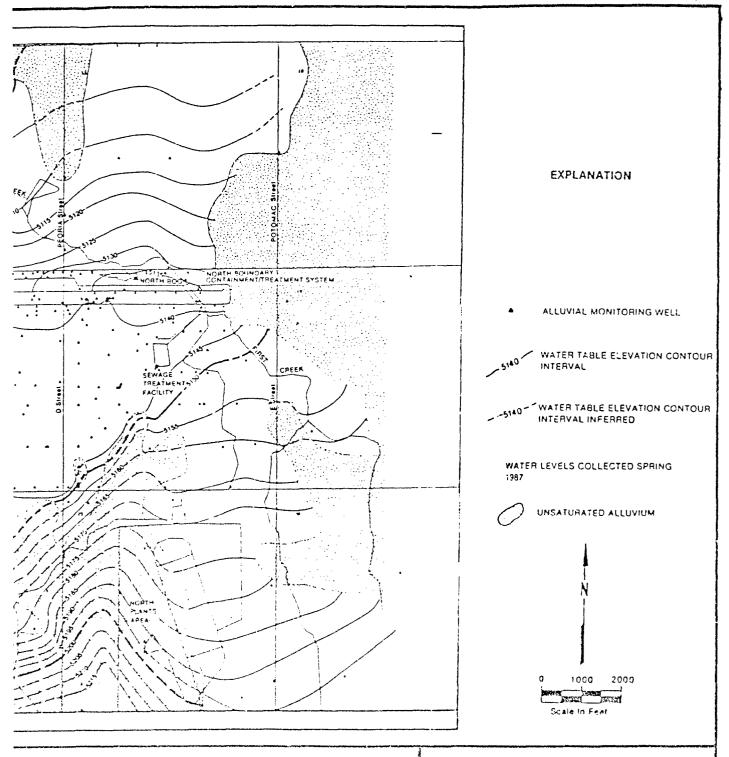


Figure B- 25C WATER TABLE EVEVATION (FT, MSL) THIRD QUARTER FY 1987





Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal



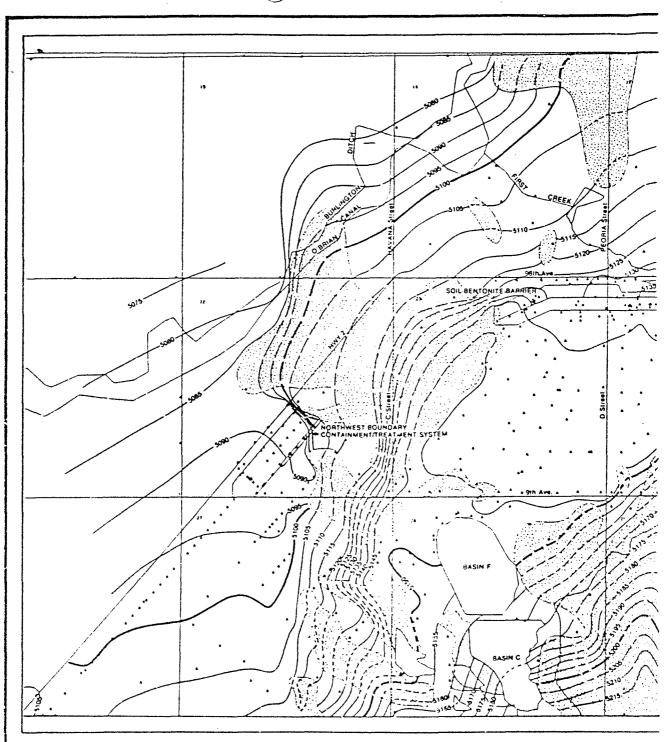
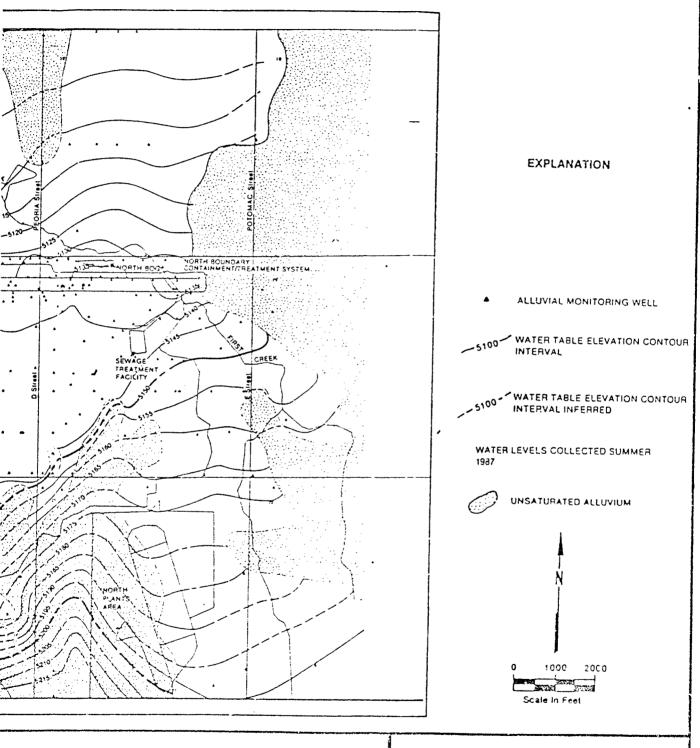


Figure 8-25D WATER TABLE ELEVATION (FT, MSL) FOURTH QUARTER FY 1987





Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal

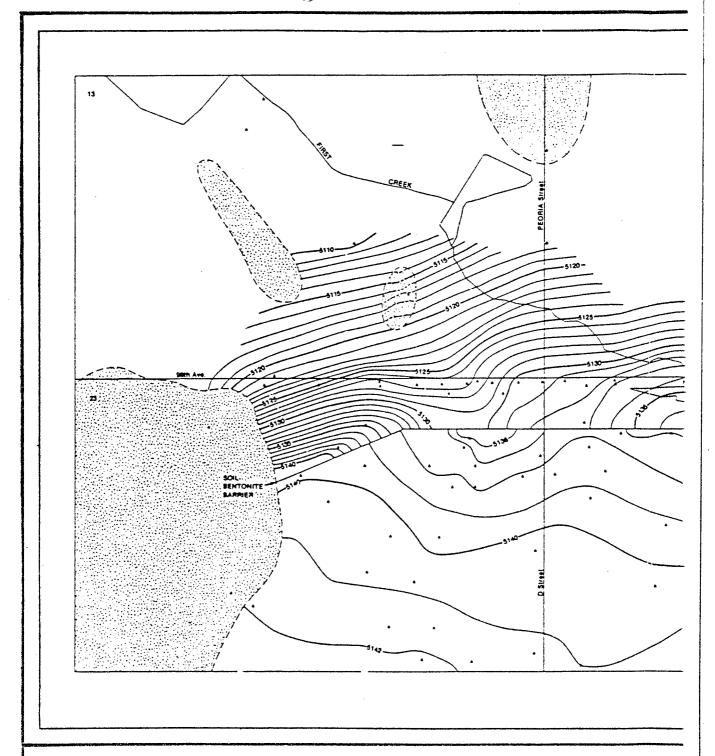
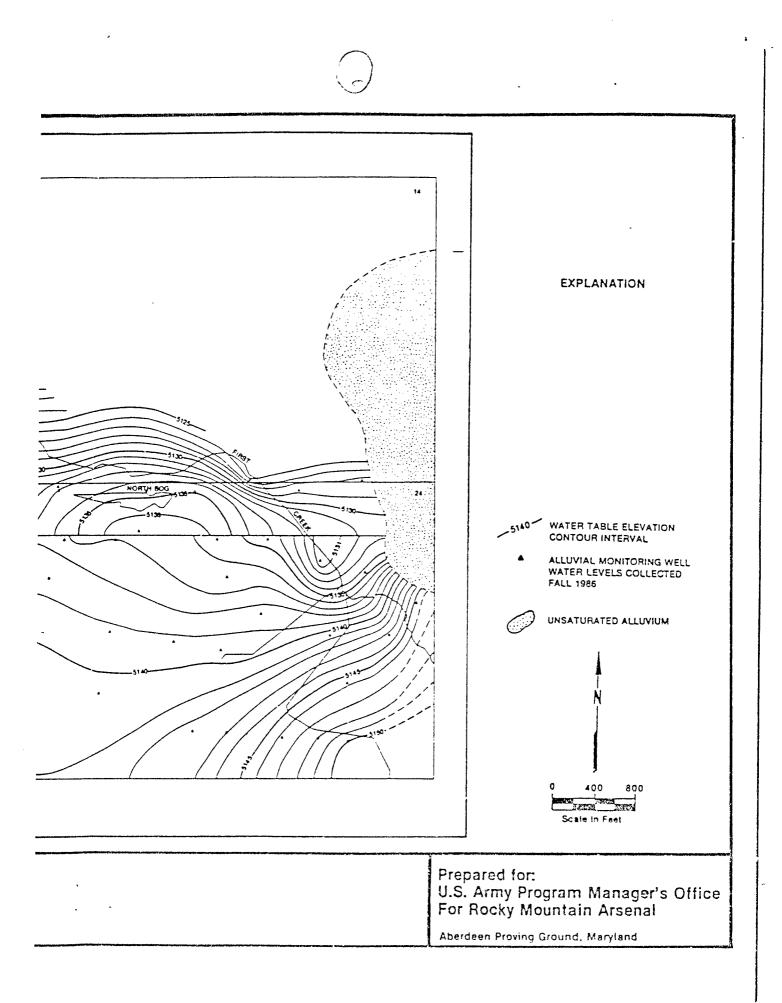


Figure B-26A NBCS, WATER TABLE ELEVATION (FEET,MSL) 1ST QUARTER FY87





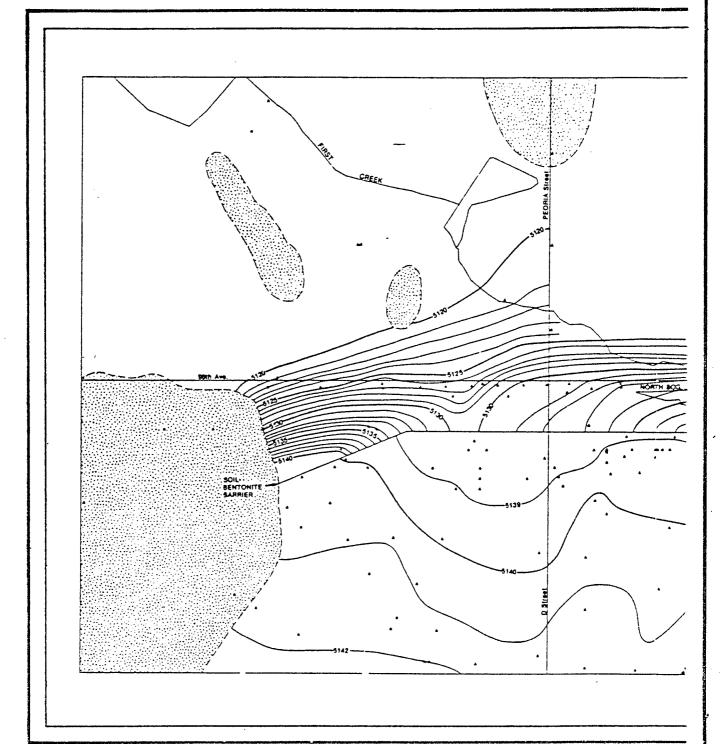
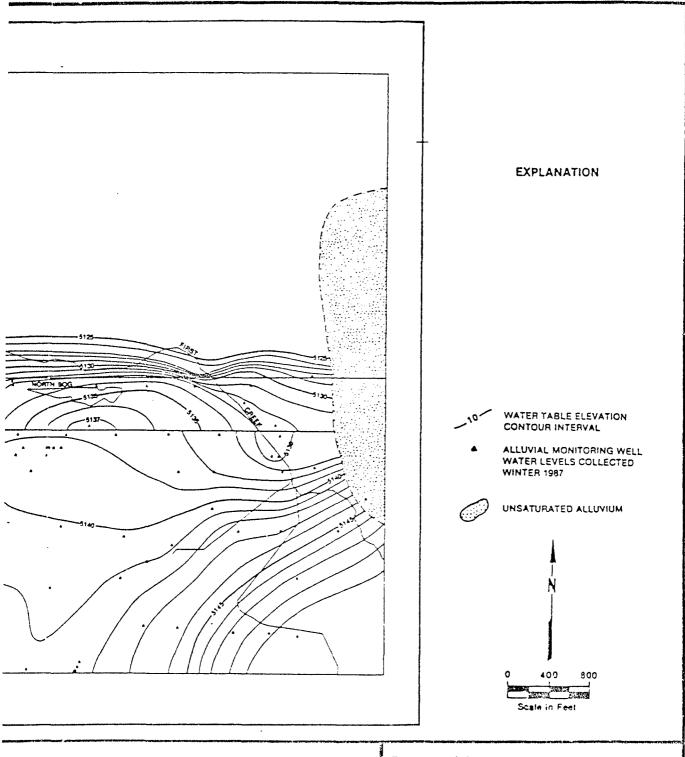


Figure B-268 NBCS, WATER TABLE ELEVATION (FEET, MSL) 2ND QUARTER FY87



Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal

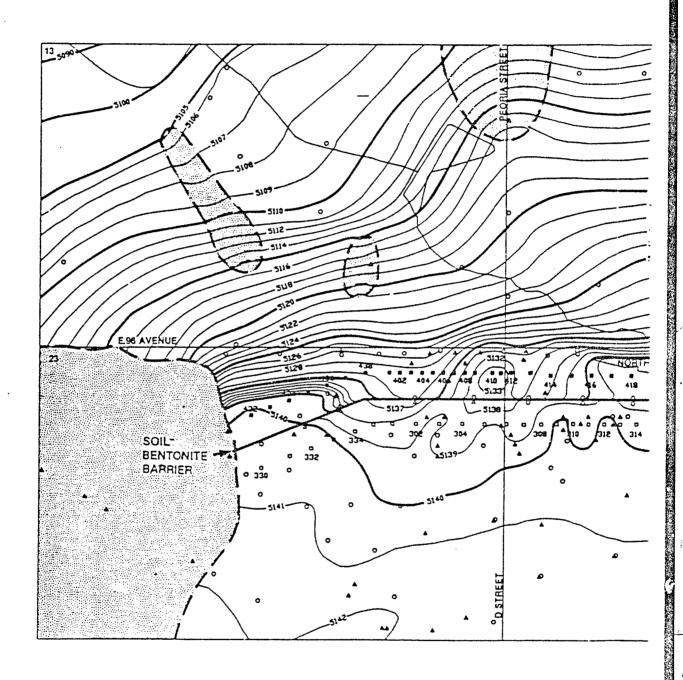


Figure B-26C NBCS, WATER TABLE ELEVATION (FEET,MSL) 3RD QUARTER, FY87

## **EXPLANATION**

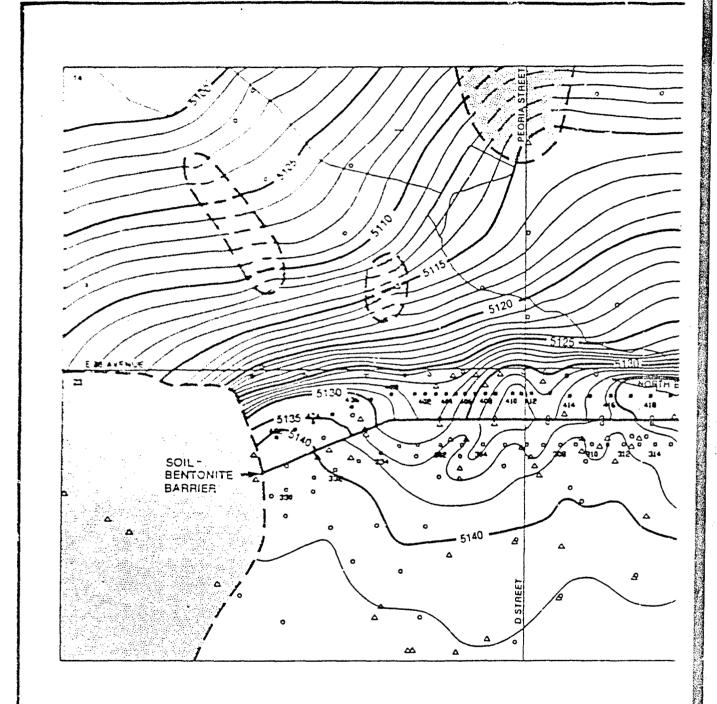
5150 WATER LEVEL CONTOUR IMSLE

- DEWATERING WELL
- # RECHARGE WELL
- O OUAUTY AND MEASURED FOR WATER LEYELS.
- ALLUVIAL WELL MEASURED FOR WATER LEVELS ONLY
- WATER LEVEL MEASURED THIS QUARTER
- UNSATURATED ALLUVIUM

0 400 800 Scale in Feet

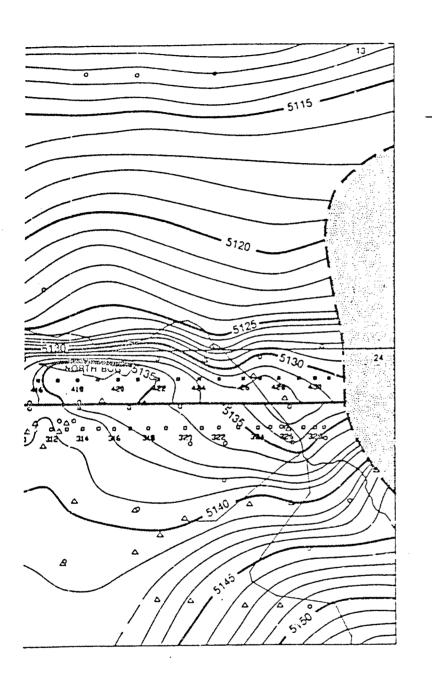
Prepared for:

U.S. Frmy Program Manager's Office For Rocky Mountain Arsenal



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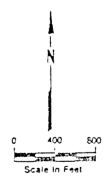
Figure 8-26D NBCS, WATER TABLE ELEVATION (FEET,MSL) 4TH QUARTER, FY87



## **EXPLANATION**

-5150° WATER LEVEL CONTOUR (MSL)

- DEWATERING WELL
- RECHARGE WELL
- ALLUVIAL WELL SAMPLED FOR WATER CUALITY AND MEASURED FOR WATER LEVELS.
- ALLUVIAL WELL MEASURED FOR WATER LEVELS ONLY
- WATER LEVEL MEASURED THIS QUARTER
- UNSATURATED ALLUVIUM



Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal

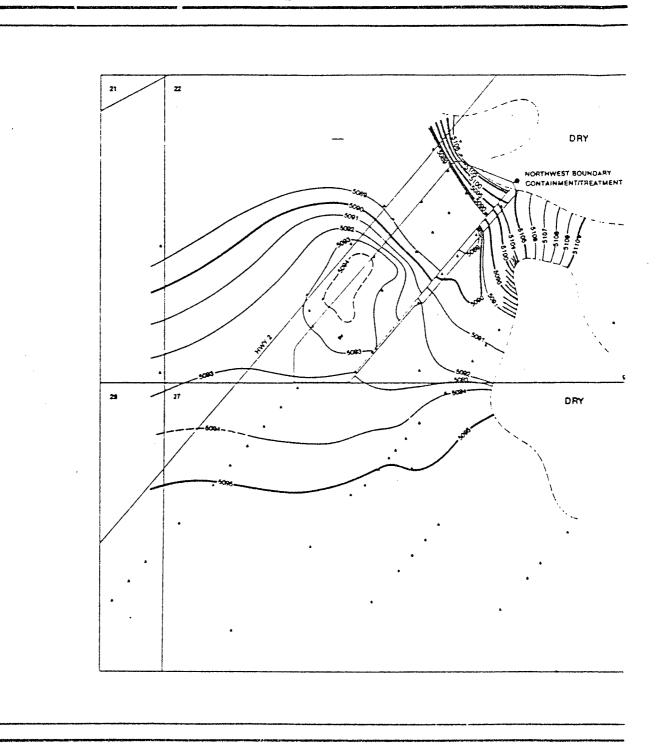
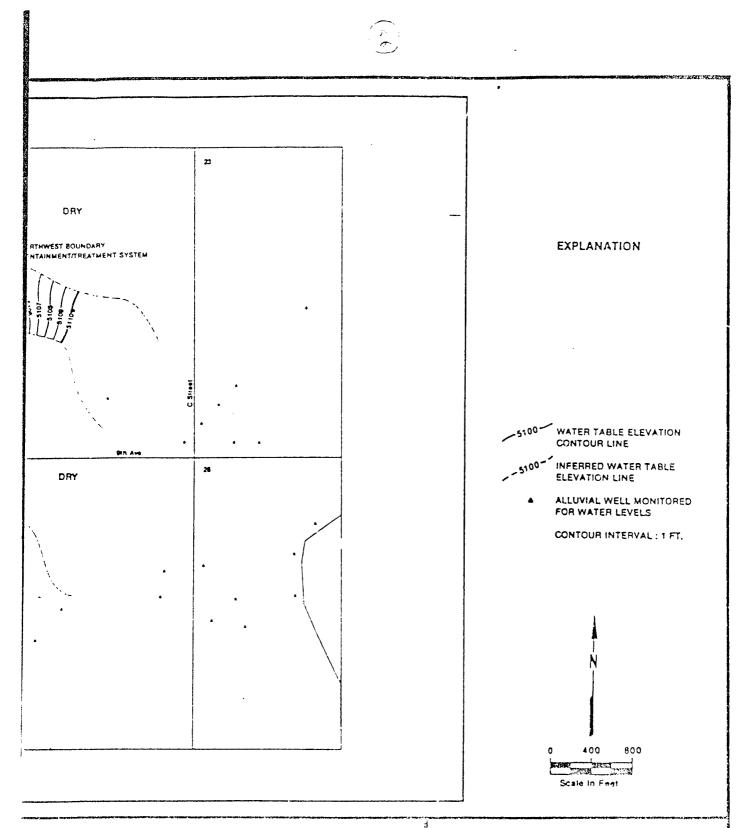


Figure B-27A NWBCS, WATER TABLE ELEVATION (FEET,MSL) 1ST QUARTER FY87



Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal



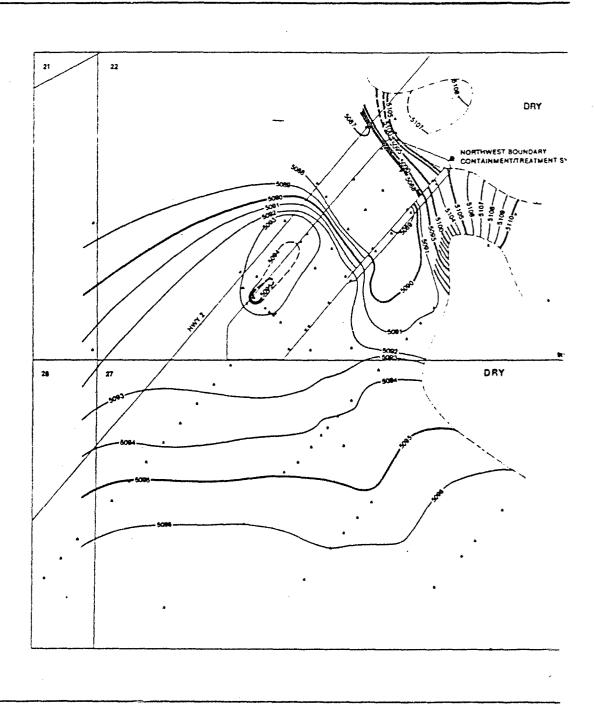


Figure B-27B NWBCS, WATER TABLE ELEVATION (FEET,MSL) 2ND QUARTER FY87



DRY THWEST BOUNDARY
TAINMENT/TREATMENT SYSTEM **EXPLANATION** 5100 WATER TABLE ELEVATION CONTOUR LINE 5100 INFERRED WATER TABLE DRY ELEVATION LINE ALLUVIAL WELL MONITORED FOR WATER LEVELS CONTOUR INTERVAL: 1 FT. Scale In Feet

Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal

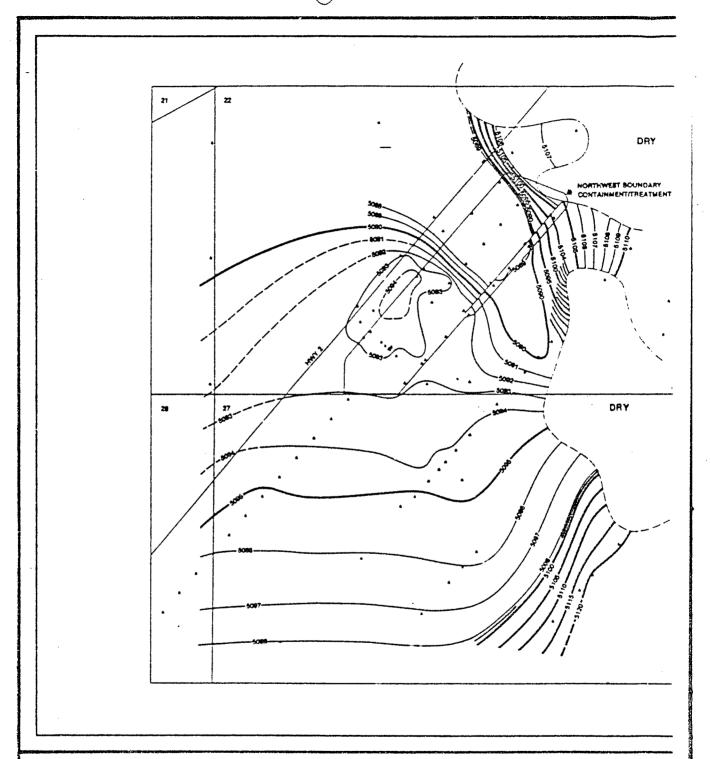


Figure B-27C NWBCS, WATER TABLE ELEVATION (FEET,MSL) 3RD QUARTER FY87

DRY THWEST SOUNDARY
TAINMENT/TREATMENT SYSTEM DRY

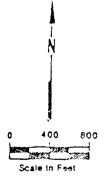
**EXPLANATION** 

5100 WATER TABLE ELEVATION CONTOUR LINE

INFERRED WATER TABLE ELEVATION LINE

ALLUVIAL WELL MONITORED FOR WATER LEVELS

CONTOUR INTERVAL: 1 FT.



Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal



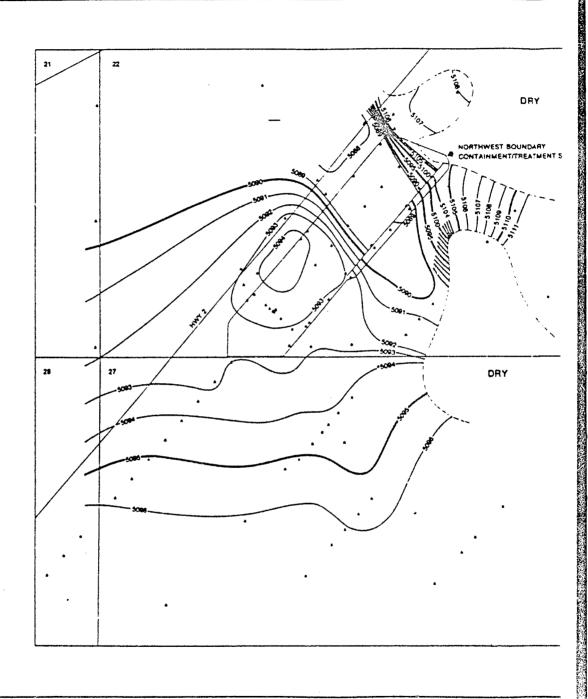
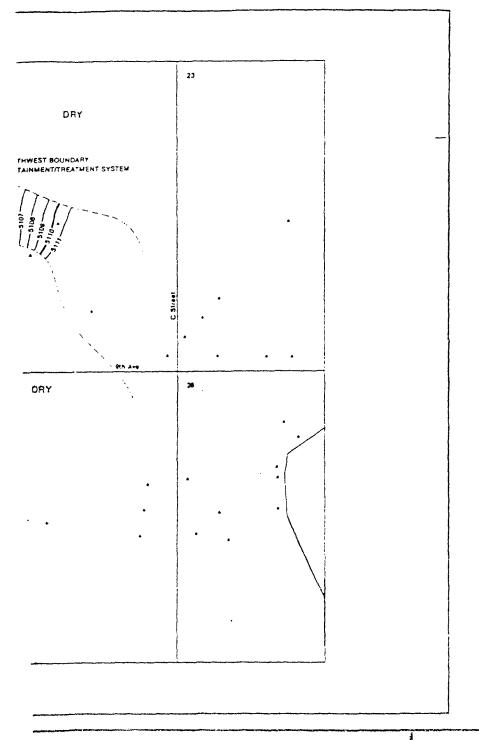


Figure B-27D NWBCS, WATER TABLE ELEVATION (FEET,MSL) 4TH QUARTER FY87



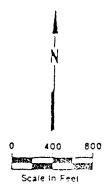
**EXPLANATION** 

5100 WATER TABLE ELEVATION CONTOUR LINE

\_\_5100 INFERRED WATER TABLE ELEVATION LINE

▲ ALLUVIAL WELL MONITORED FOR WATER LEVELS

CONTOUR INTERVAL: 1 FT.



Prepared for:

U.S. Army Program Manager's Office For Rocky Mountain Arsenal



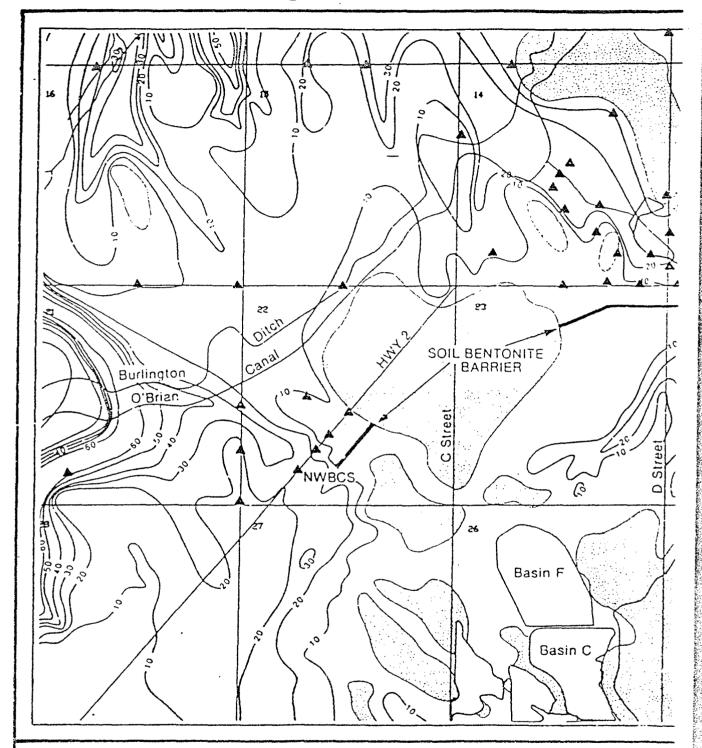
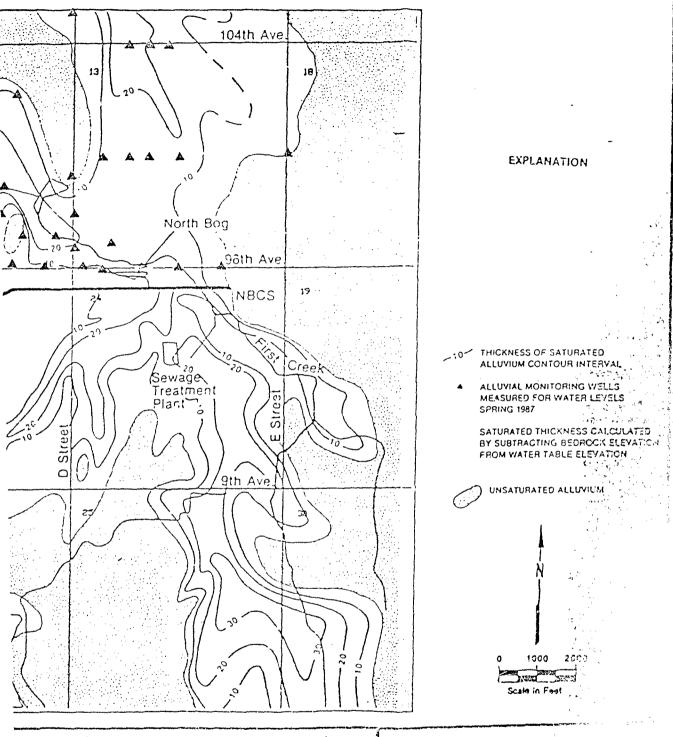


Figure 8-28 CONTOUR MAP OF THE THICKNESS OF SATURATED ALLUVIUM 3RD QUARTER FY87



Prepared for: U.S. Army Program Mana For Bocky Mountain Arse

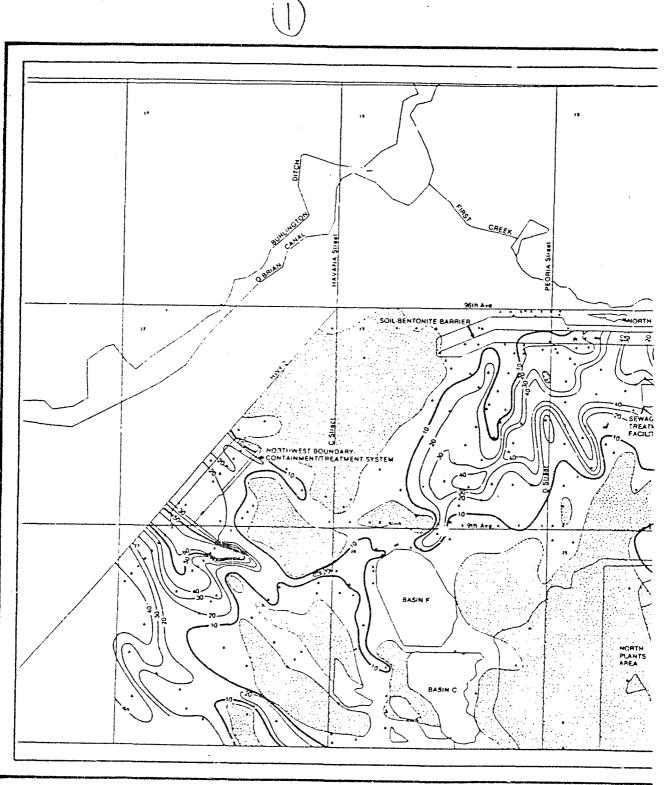
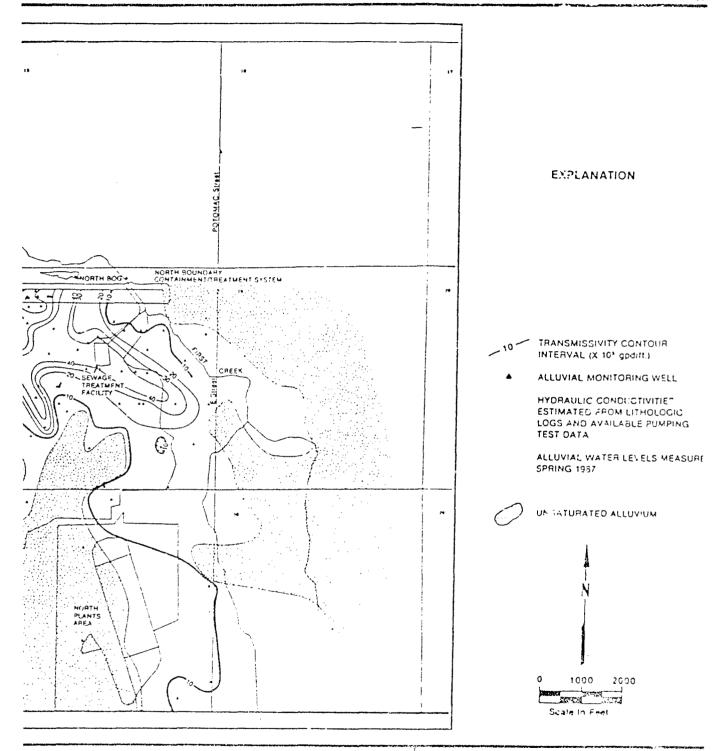


Figure B-29 CONTOUR MAP OF THE TRANSMISSIVITY OF THE ALLUVIAL AQUIFER 3RD QUARTER FY87





Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal



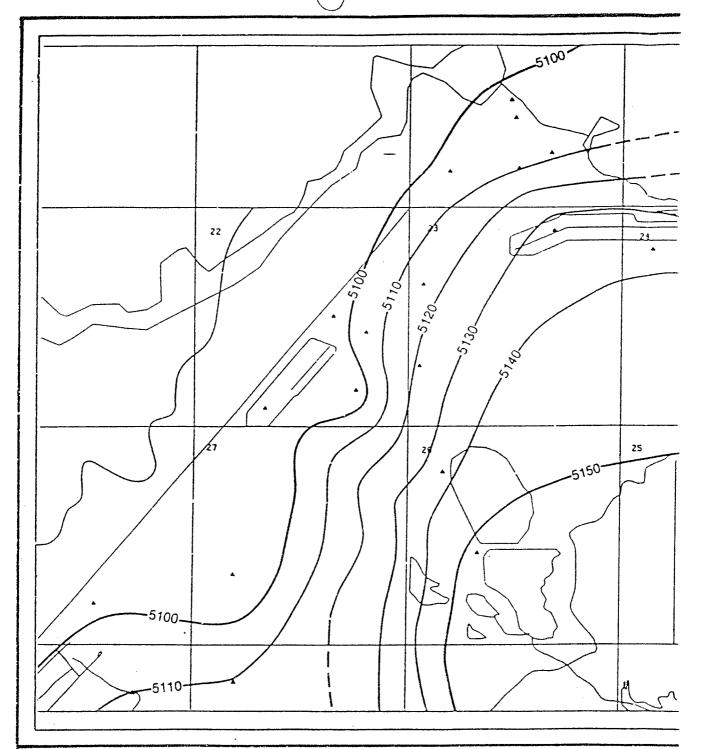


Figure B-30 POTENTIOMETRIC SURFACE, DENVER FORMATION SAND ZONE 4 3RD QUARTER FY87

Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal

Scale in Feet

Aberdeen Proving Ground, Maryland



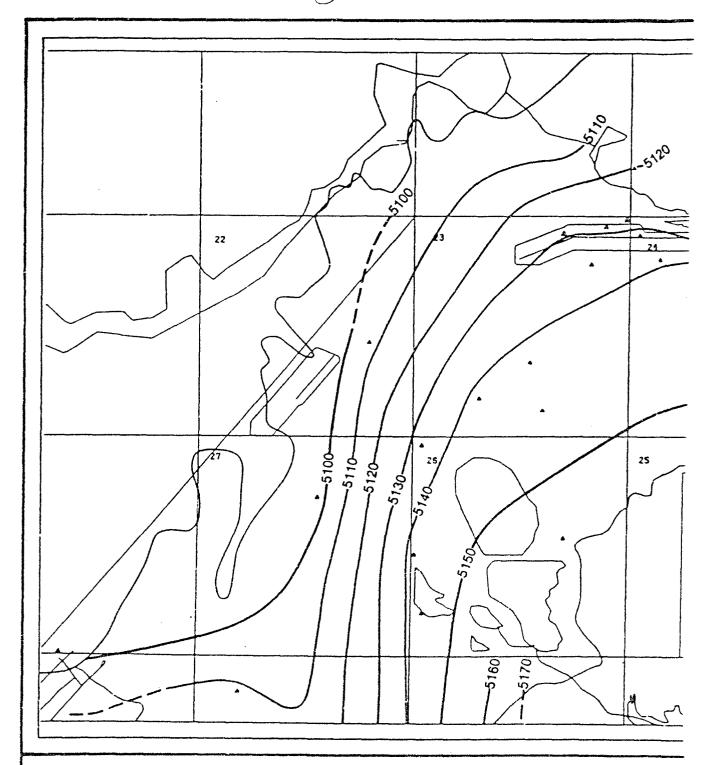
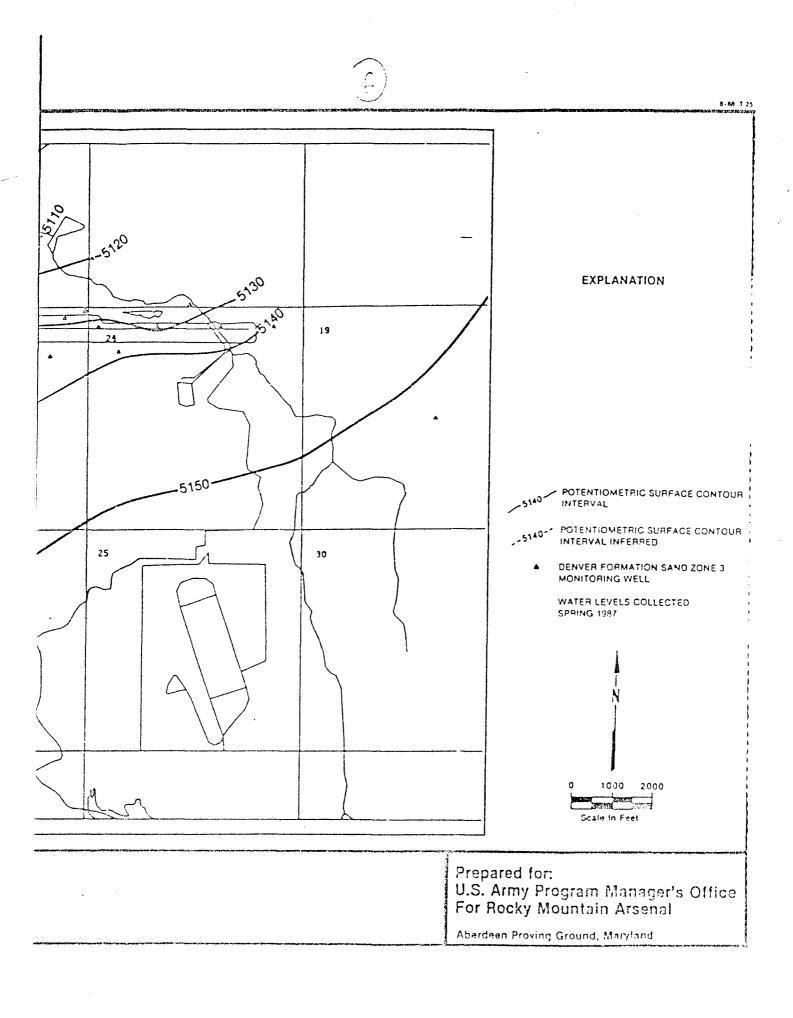


Figure B-31 POTENTIOMETRIC SURFACE, DENVER FORMATION SAND ZONE 3 3RD QUARTER FY87





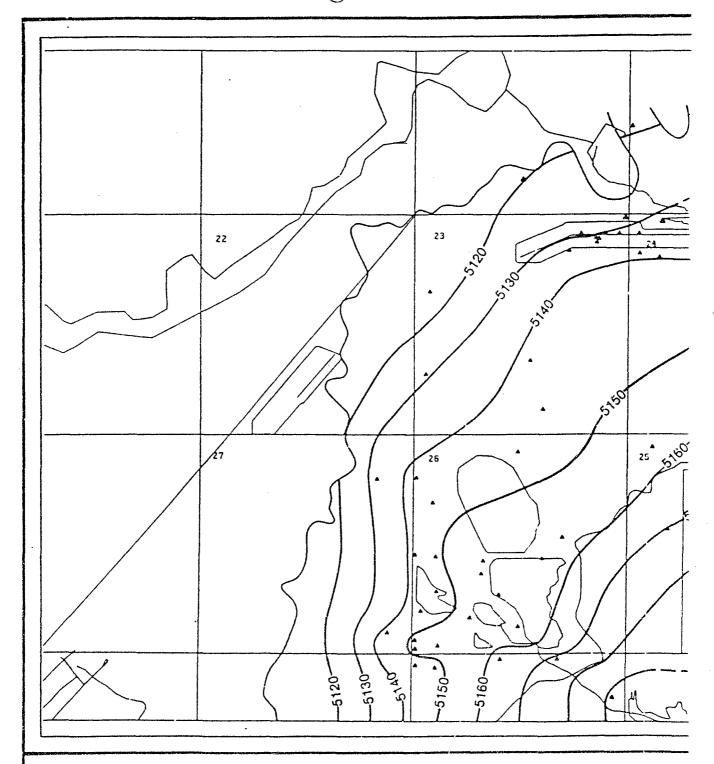
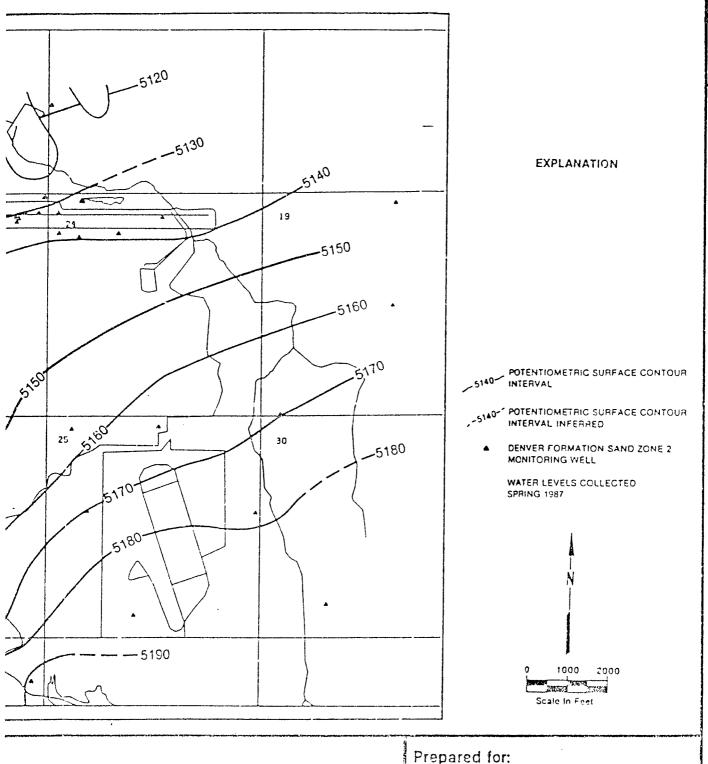


Figure B-32 POTENTIOMETRIC SURFACE, DENVER FORMATION SAND ZONE 2 3RD QUARTER FY87



Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal

Aberdeen Proving Ground, Maryland

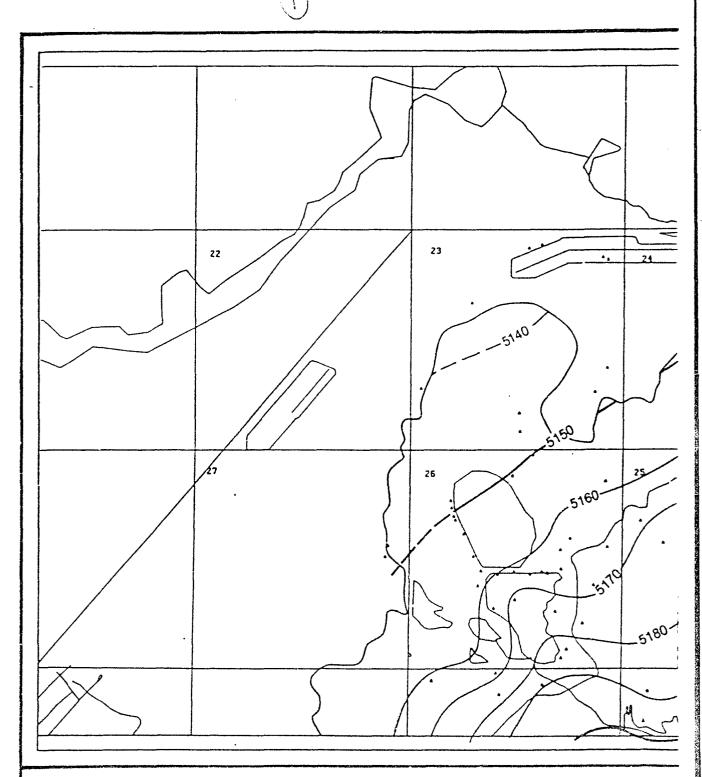
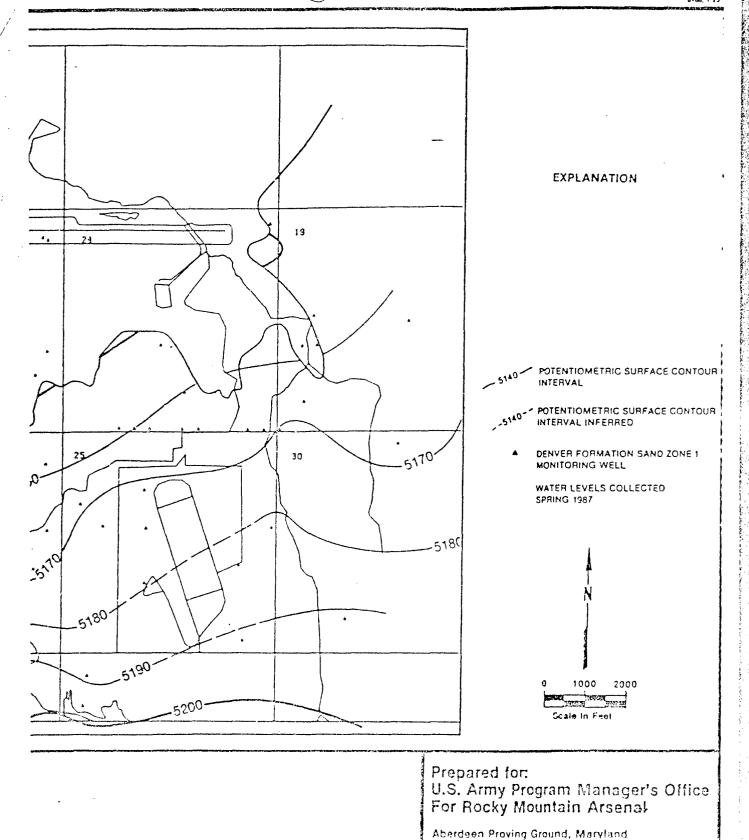


Figure 8-33 POTENTIOMETRIC SURFACE, DENVER FORMATION SAND ZONE 1 THIRD QUARTER FY 1987





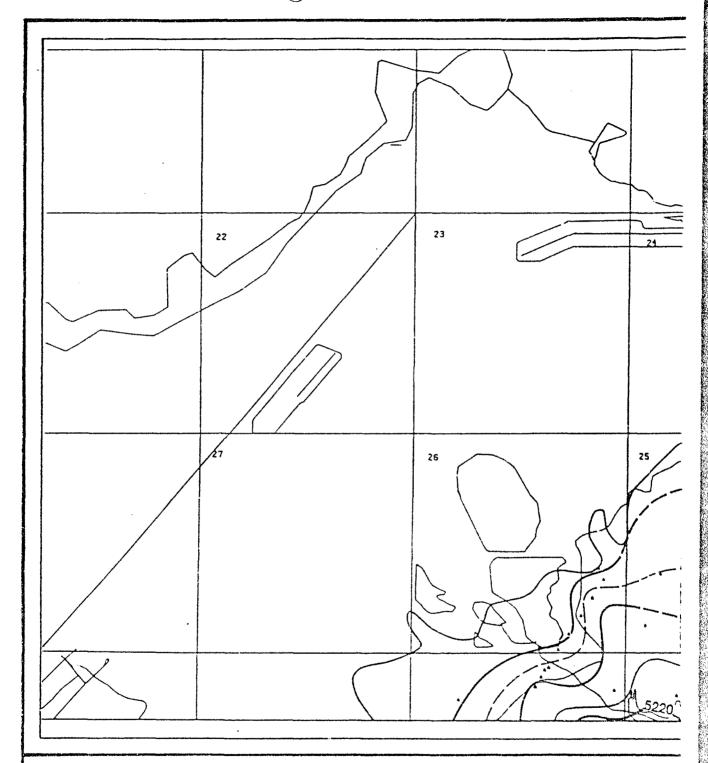
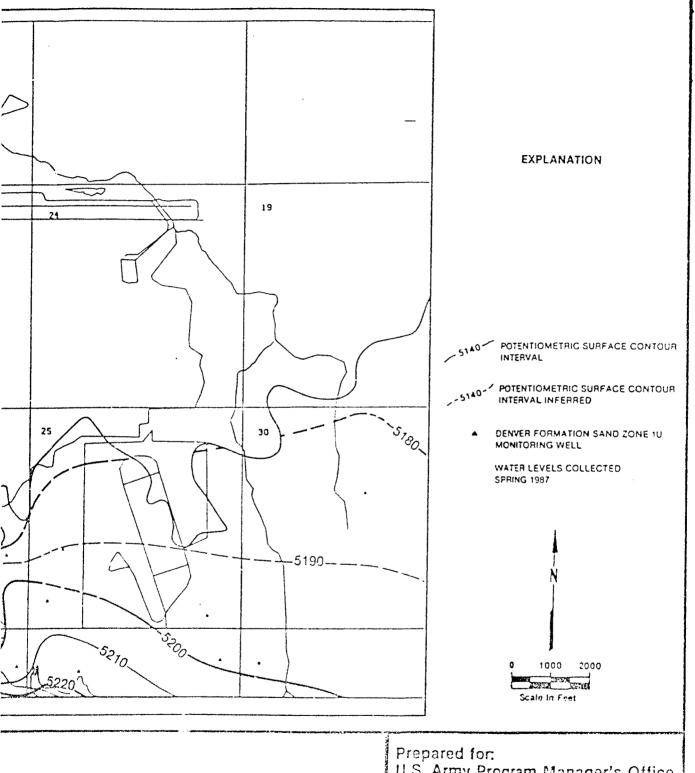
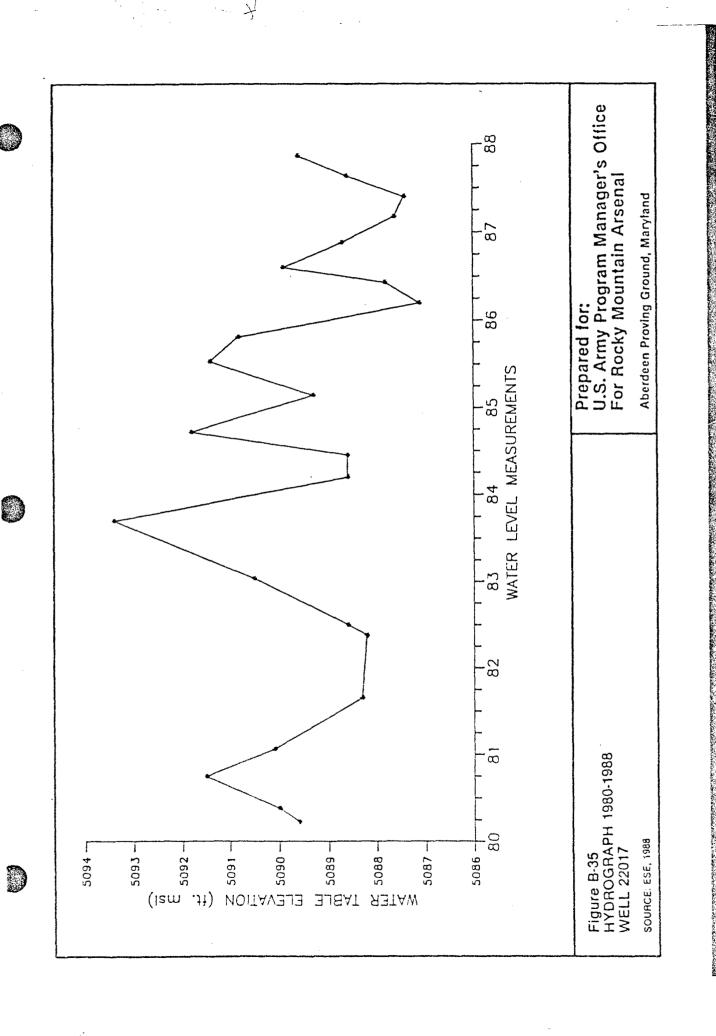


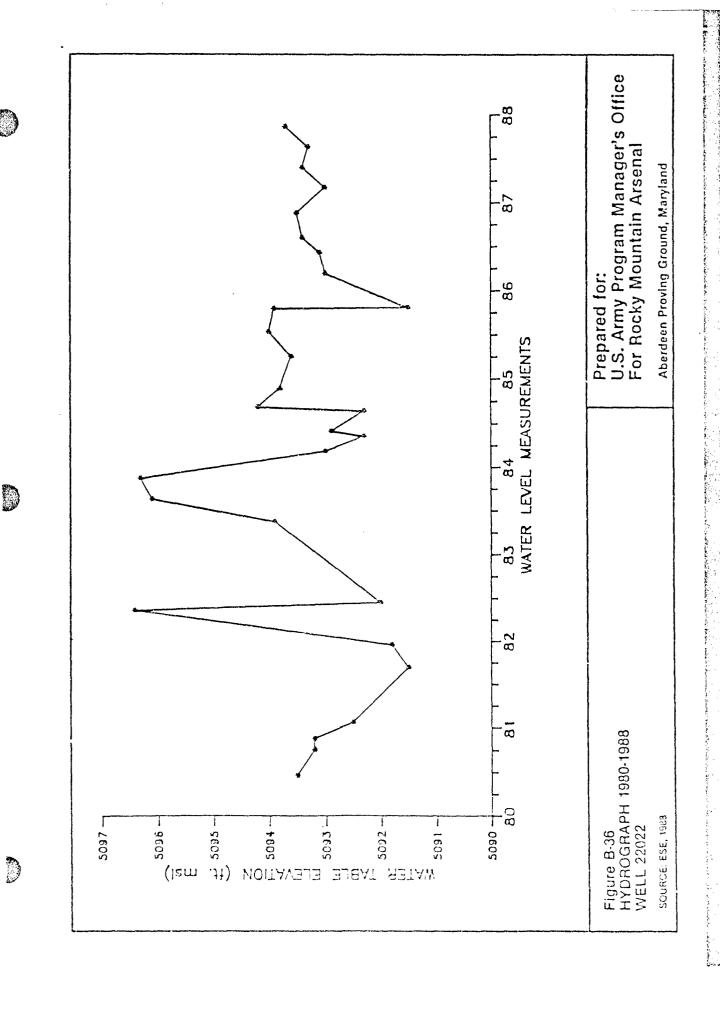
Figure B-34
POTENTIOMETRIC SURFACE, DENVER FORMATION SAND ZONE 1 U
THIRD QUARTER FY 1987

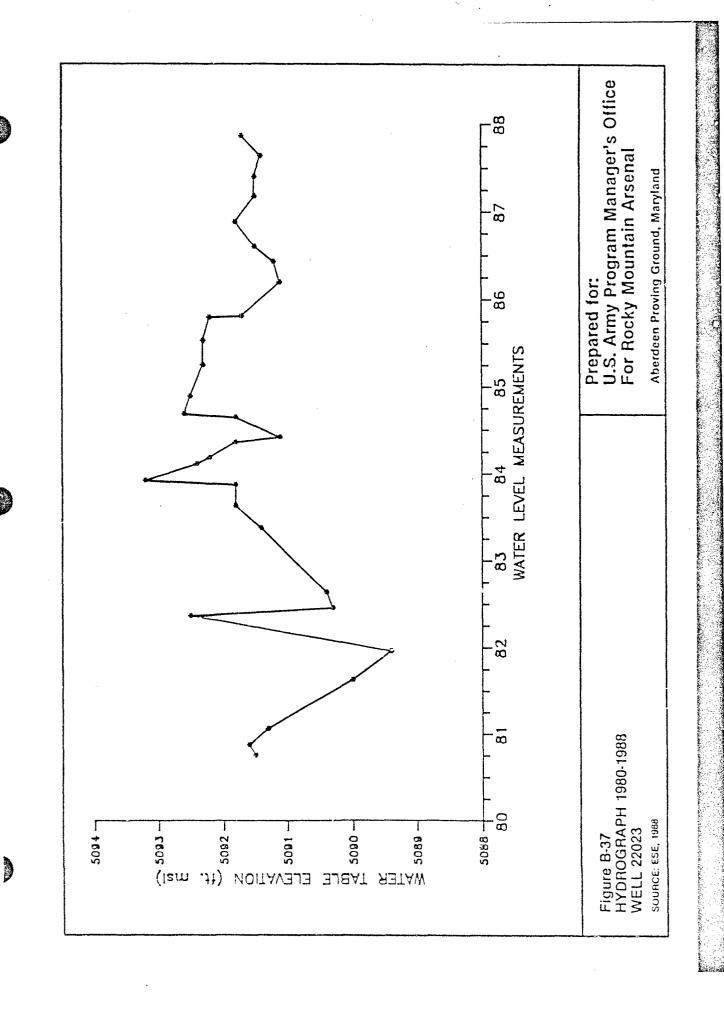


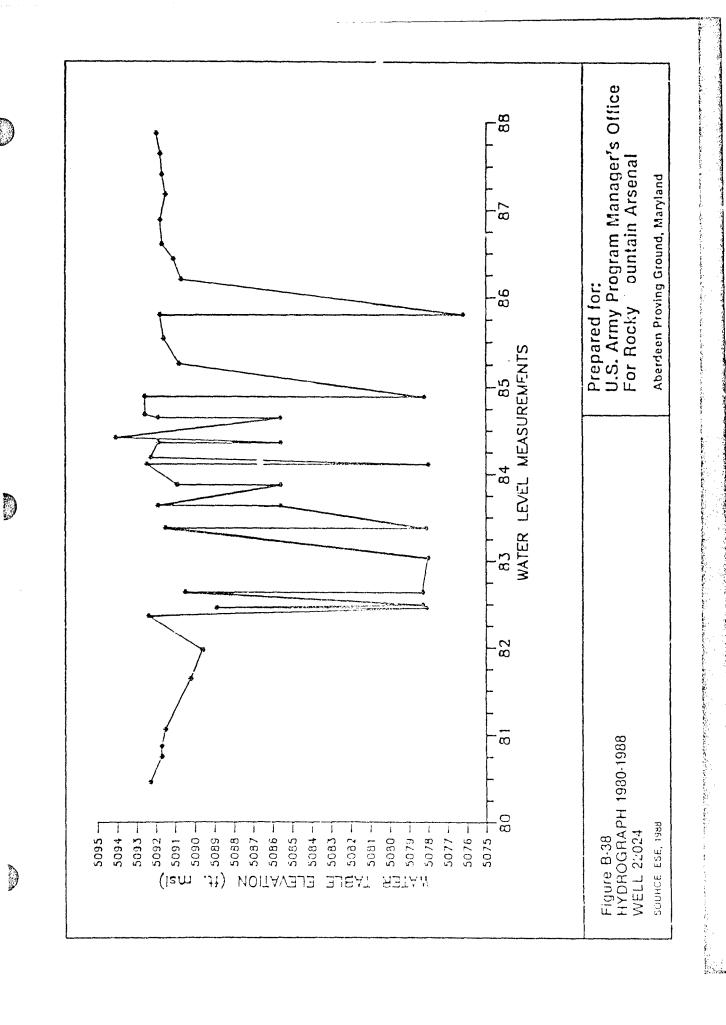
Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal

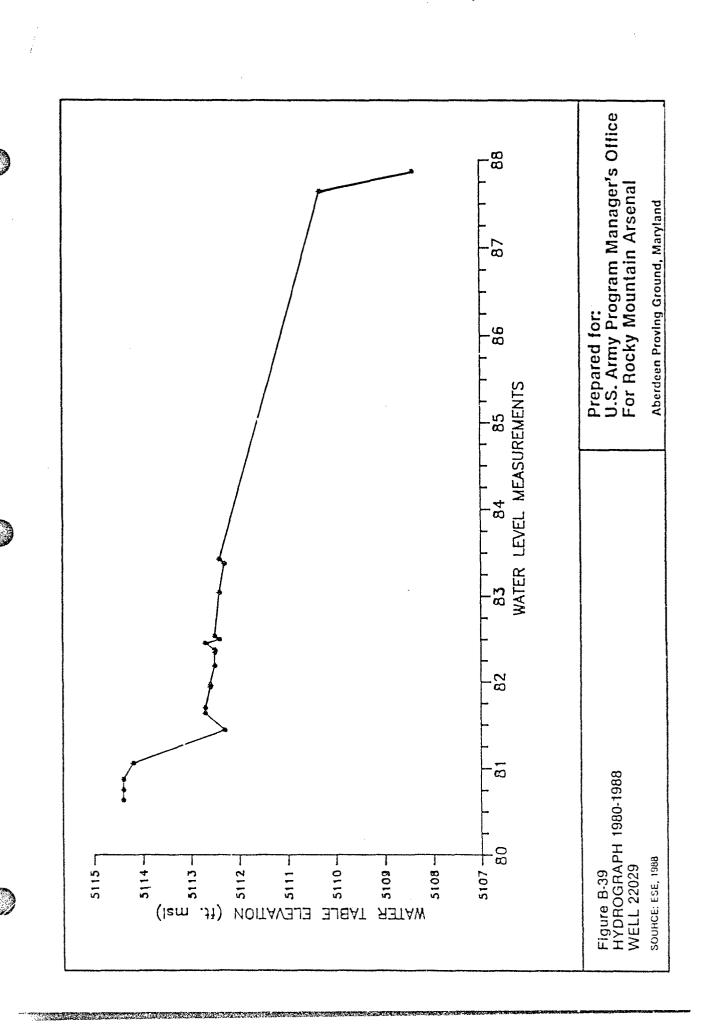
Aberdeen Proving Ground, Maryland

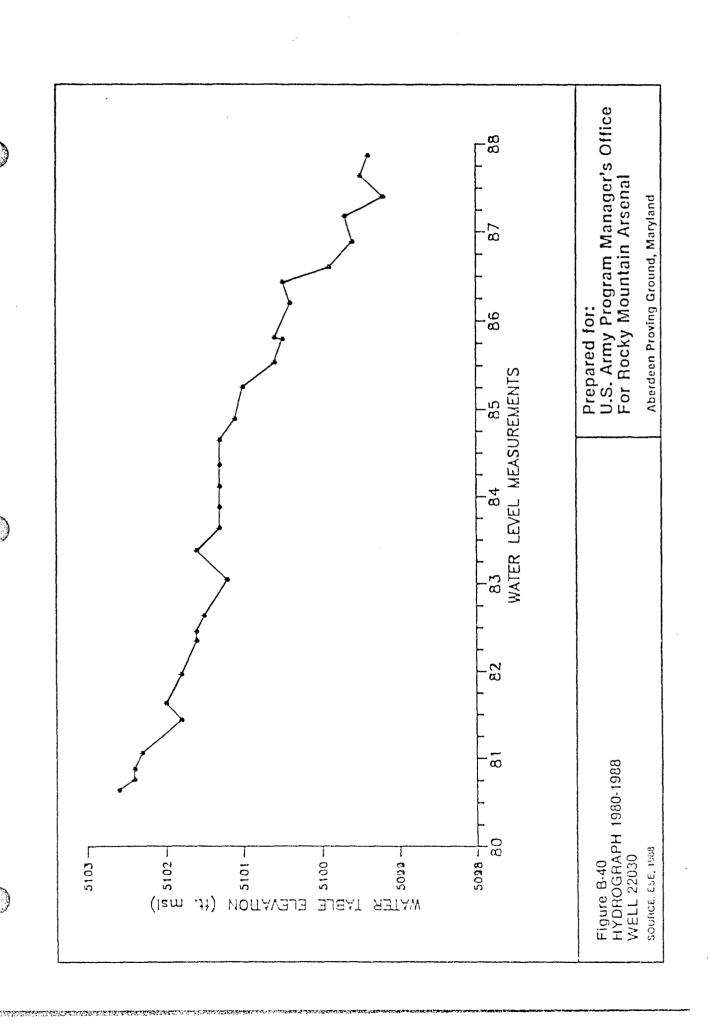


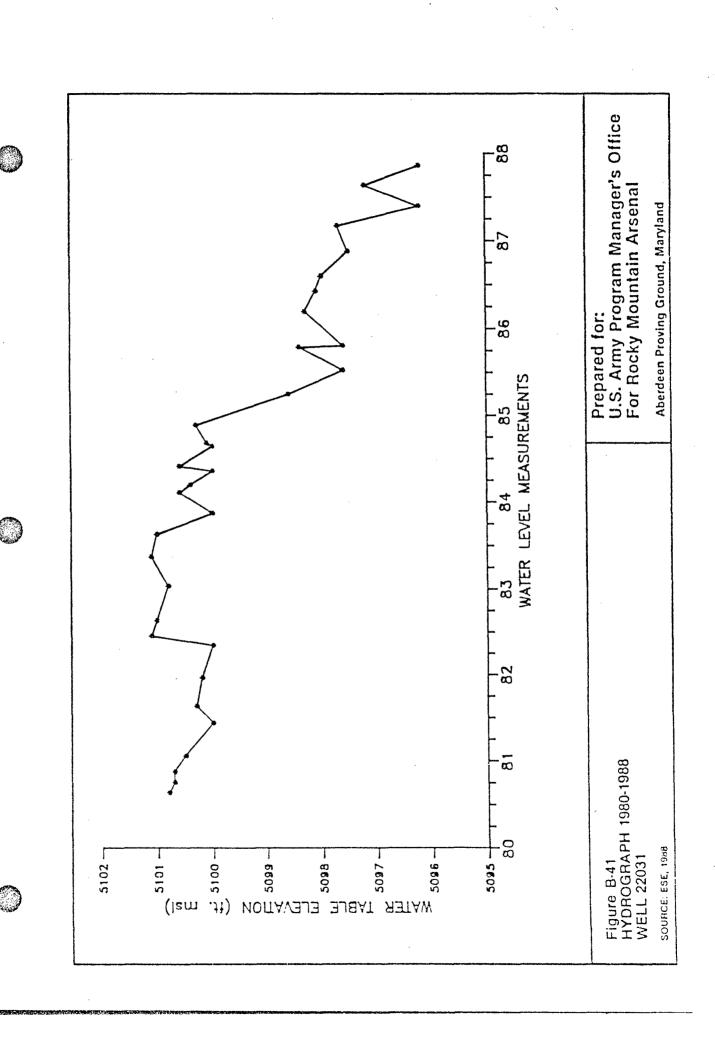


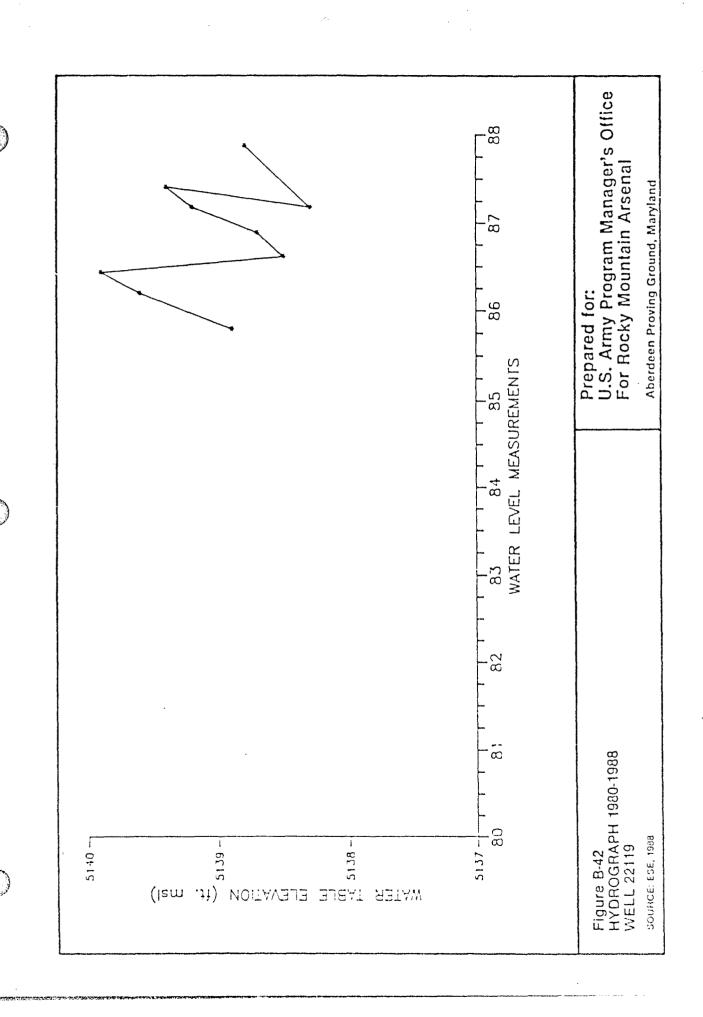


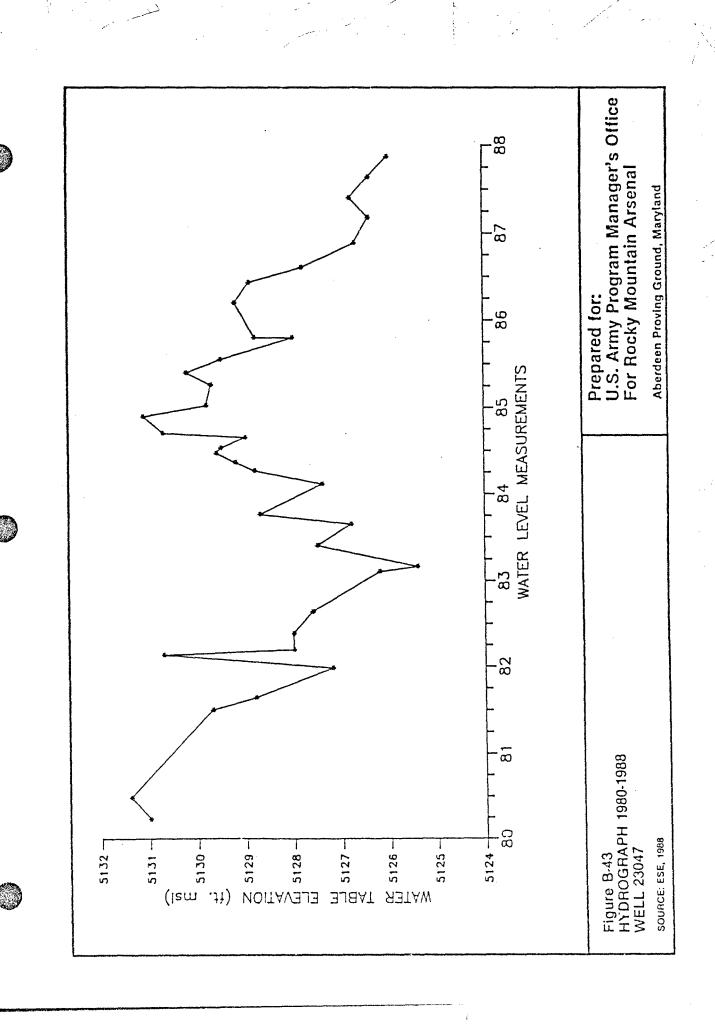


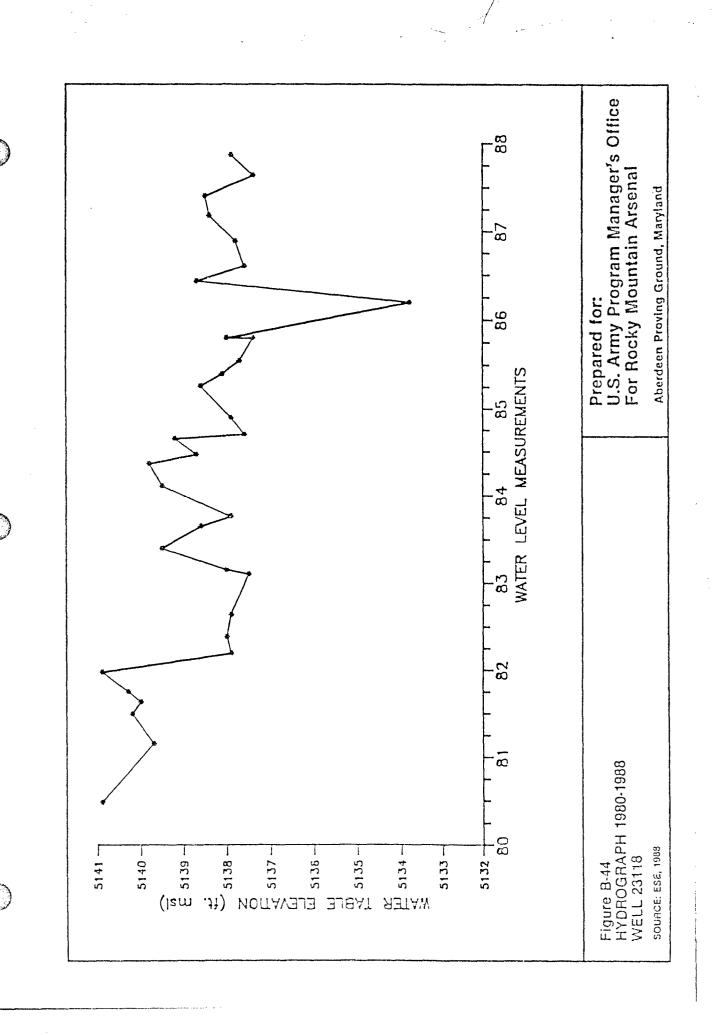


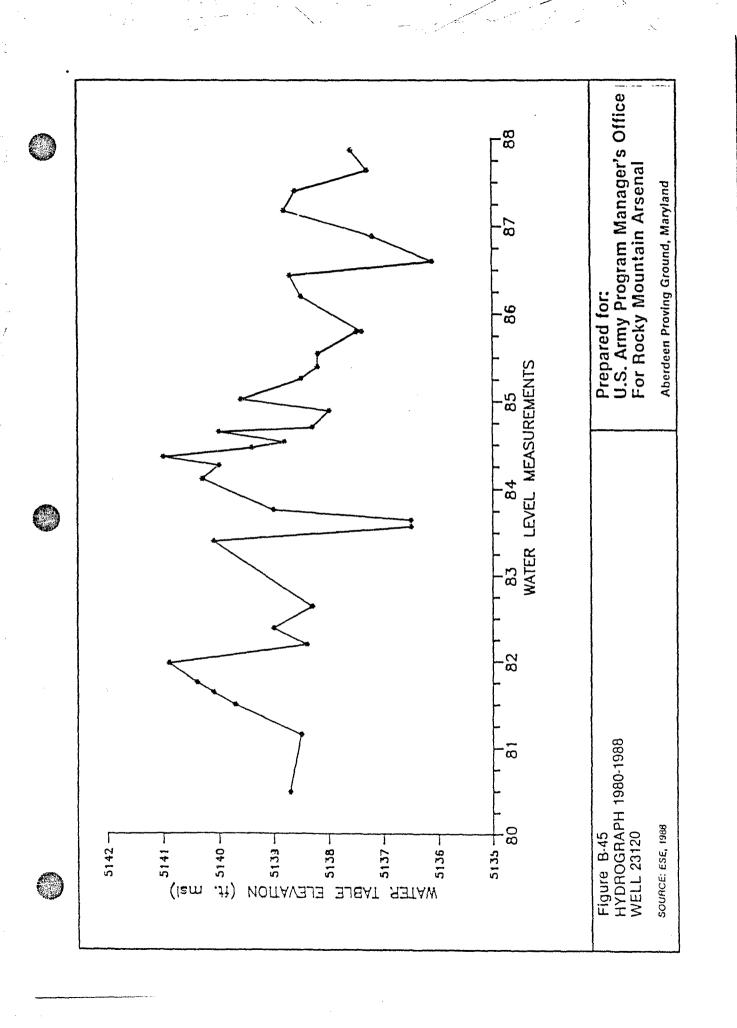


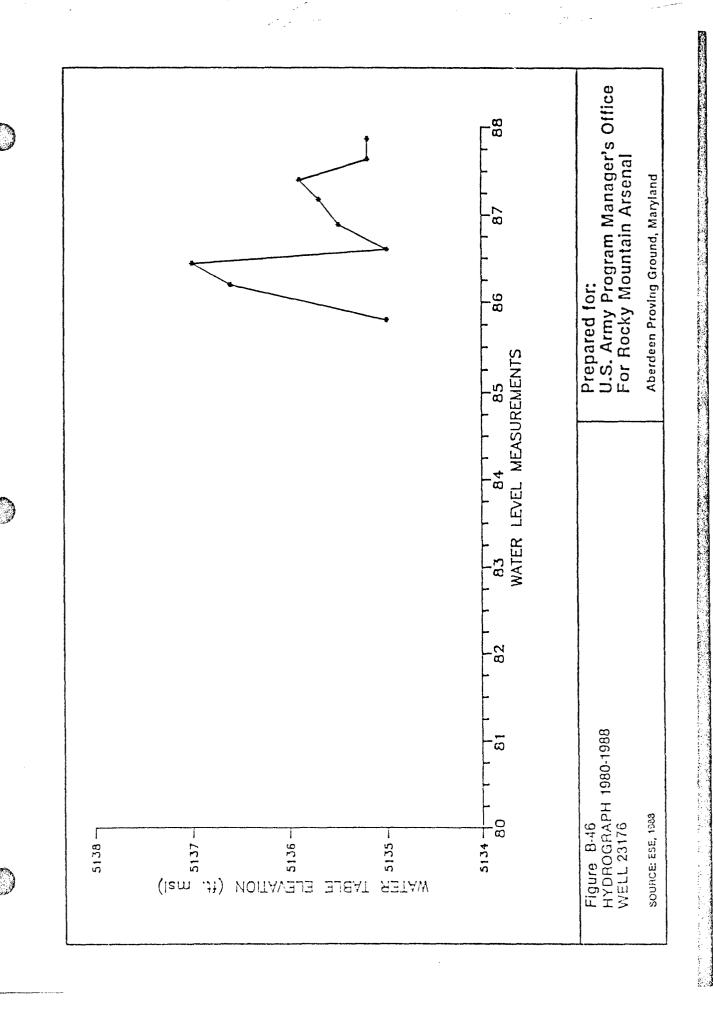


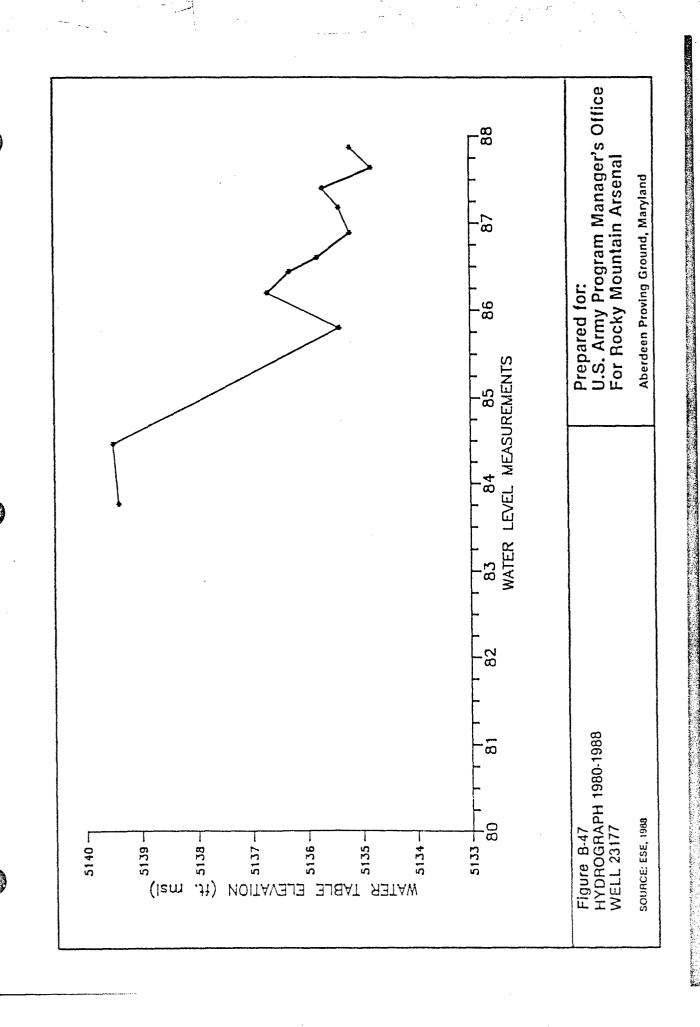


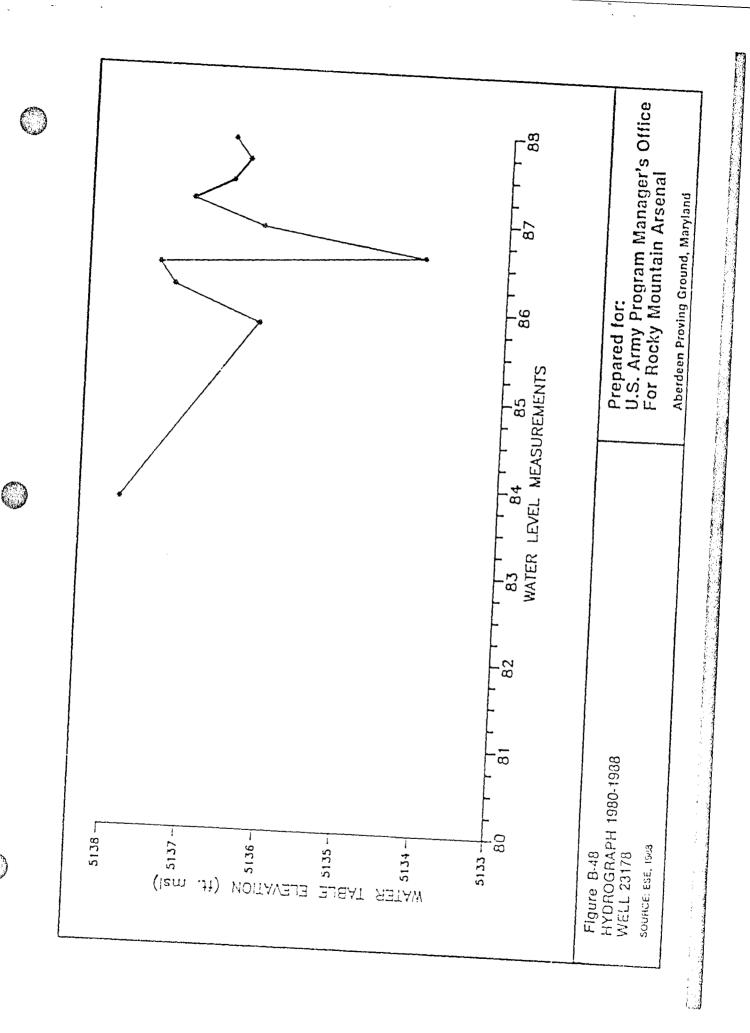


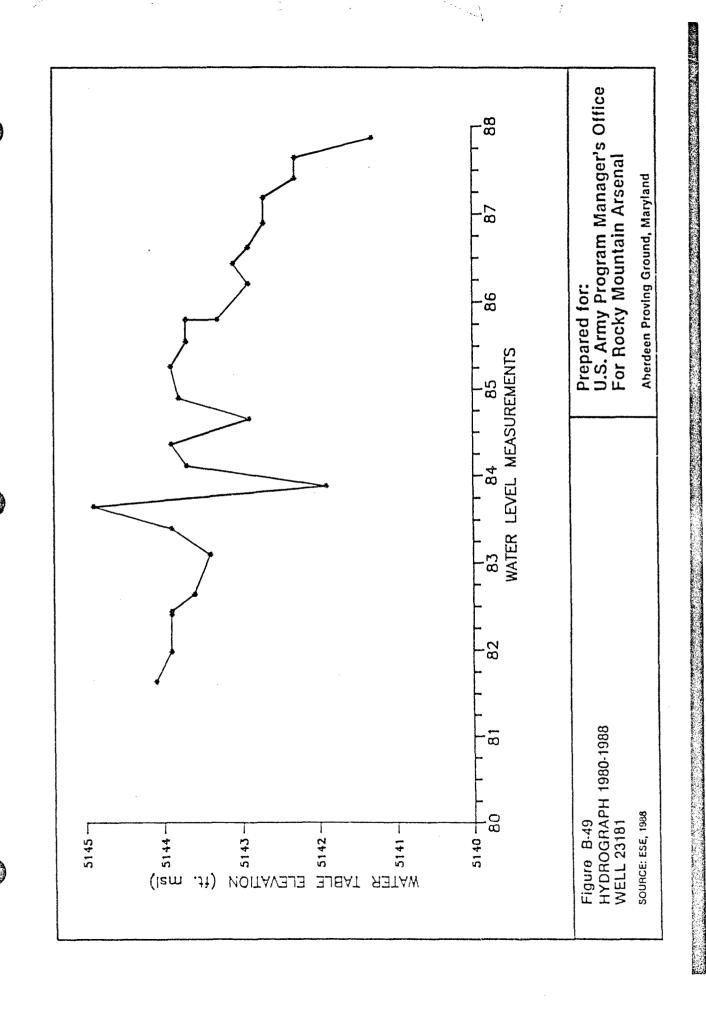


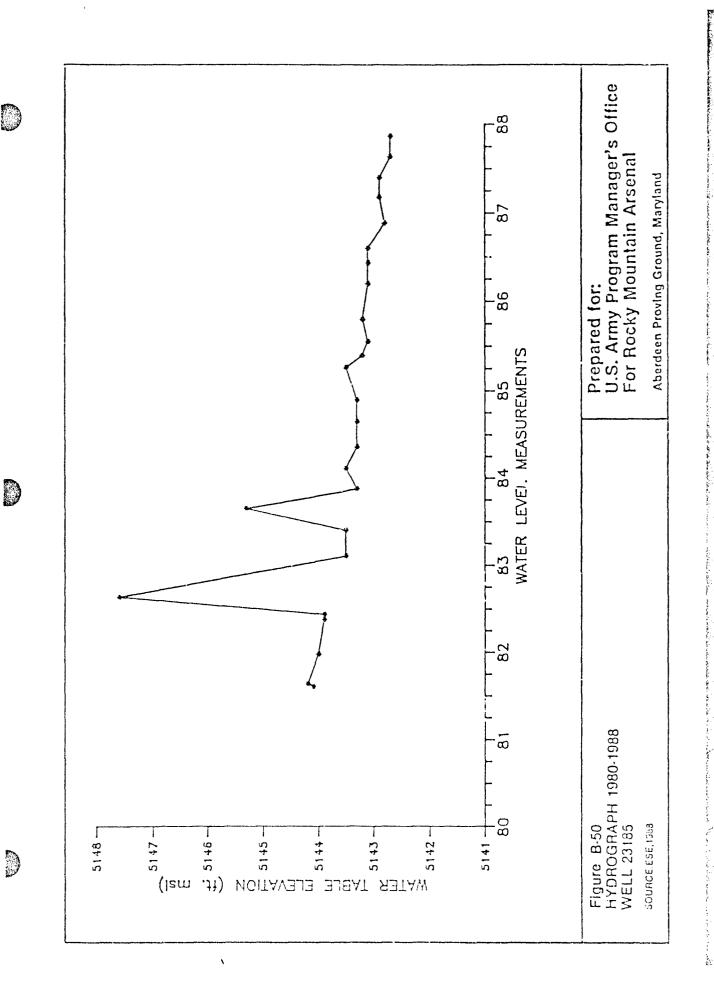


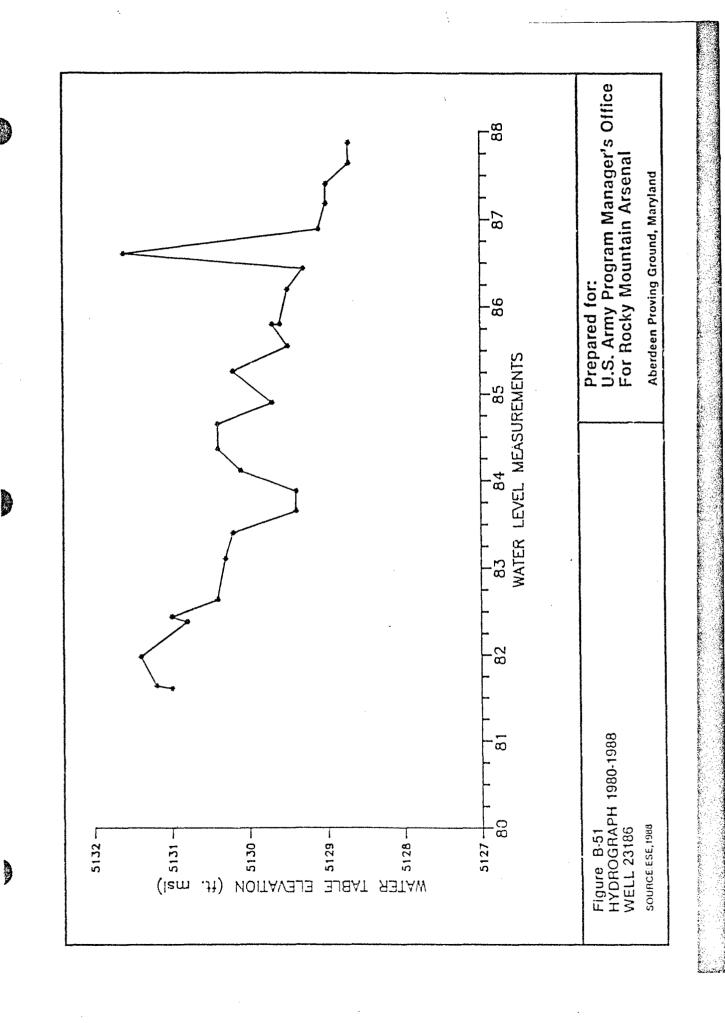


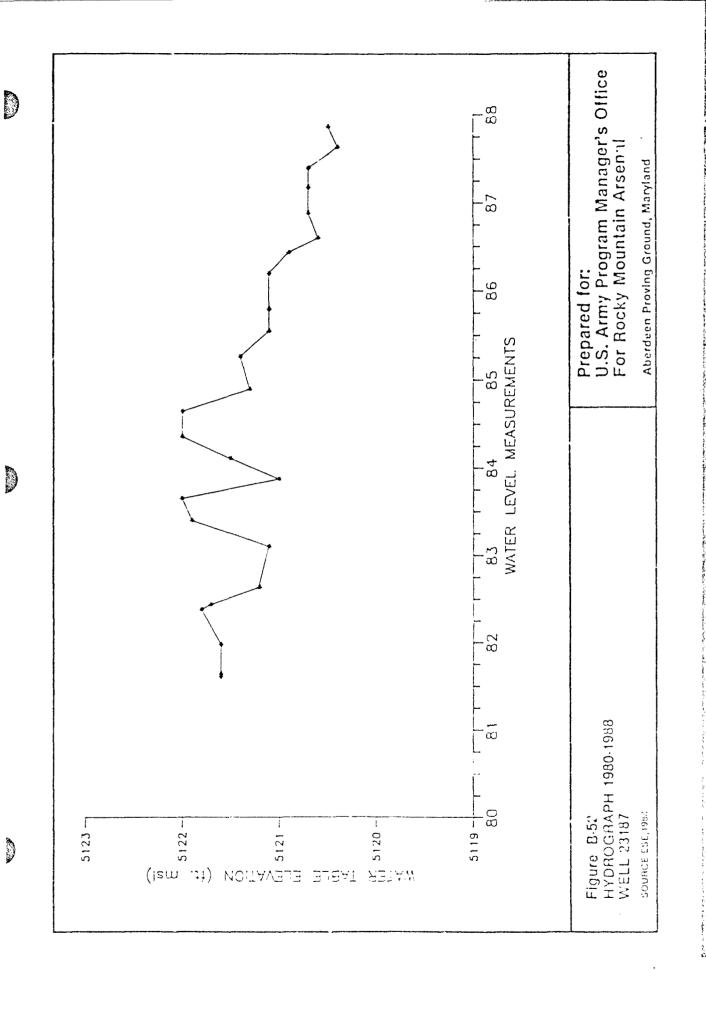


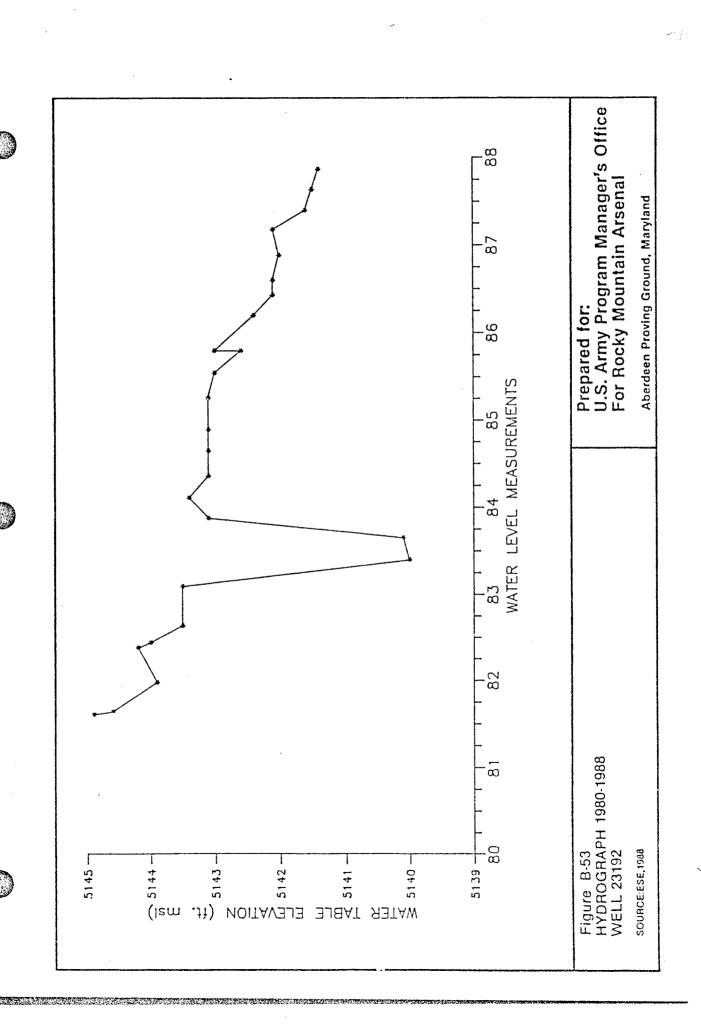


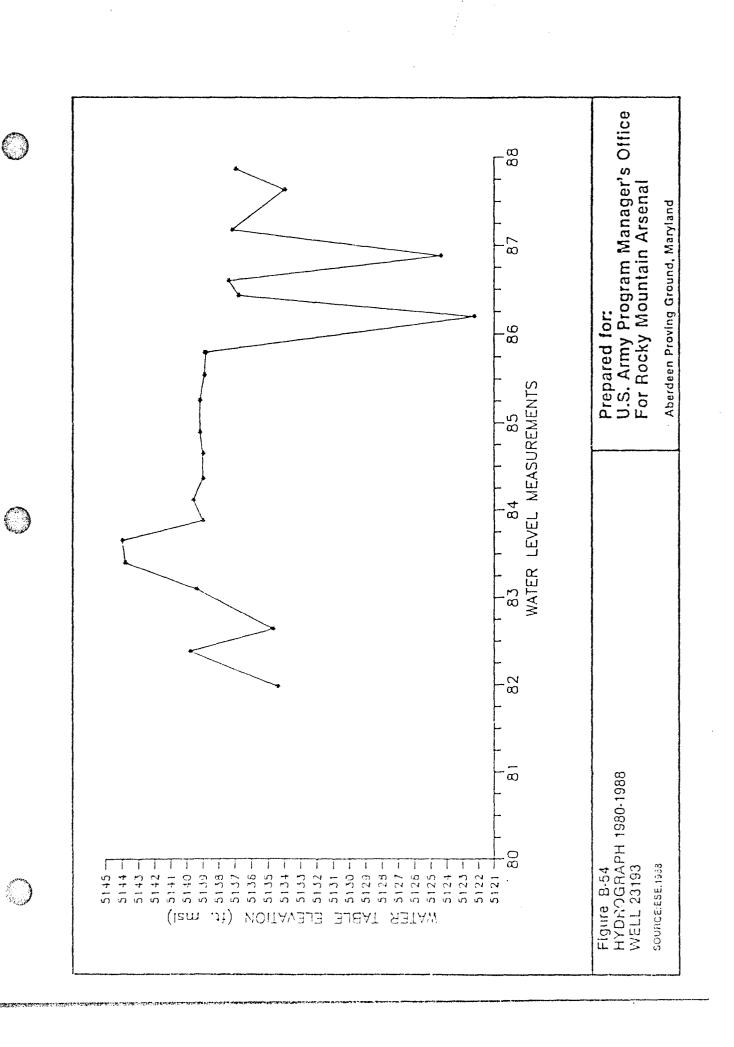


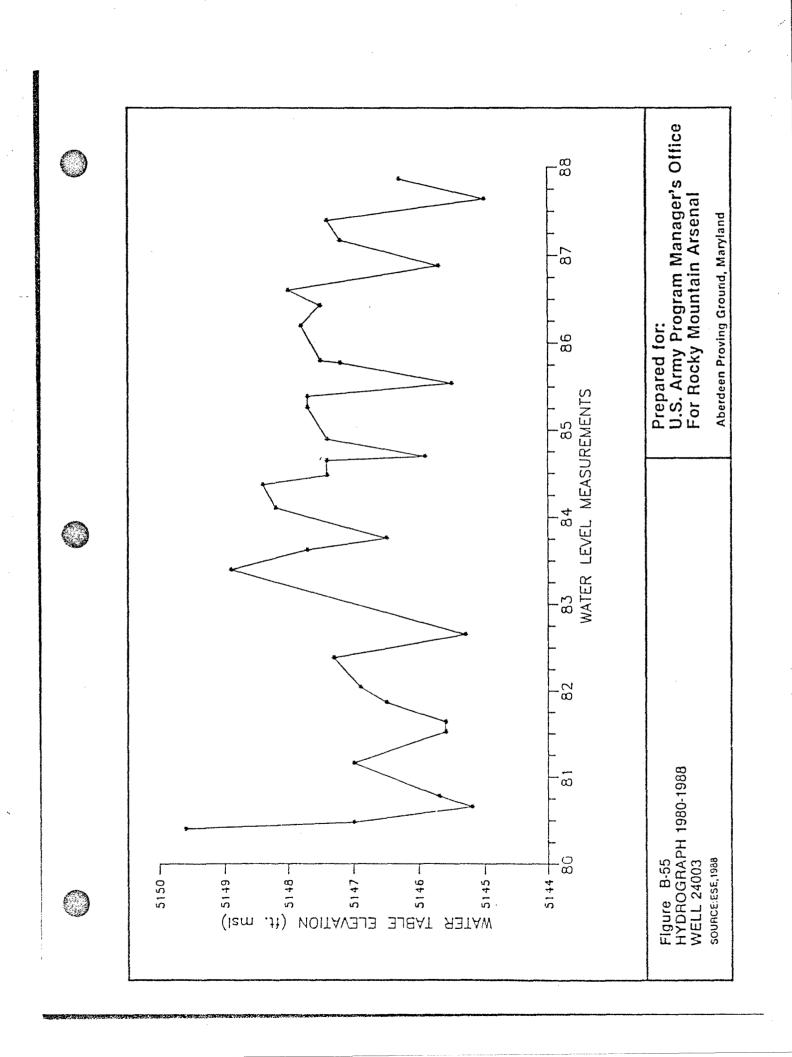


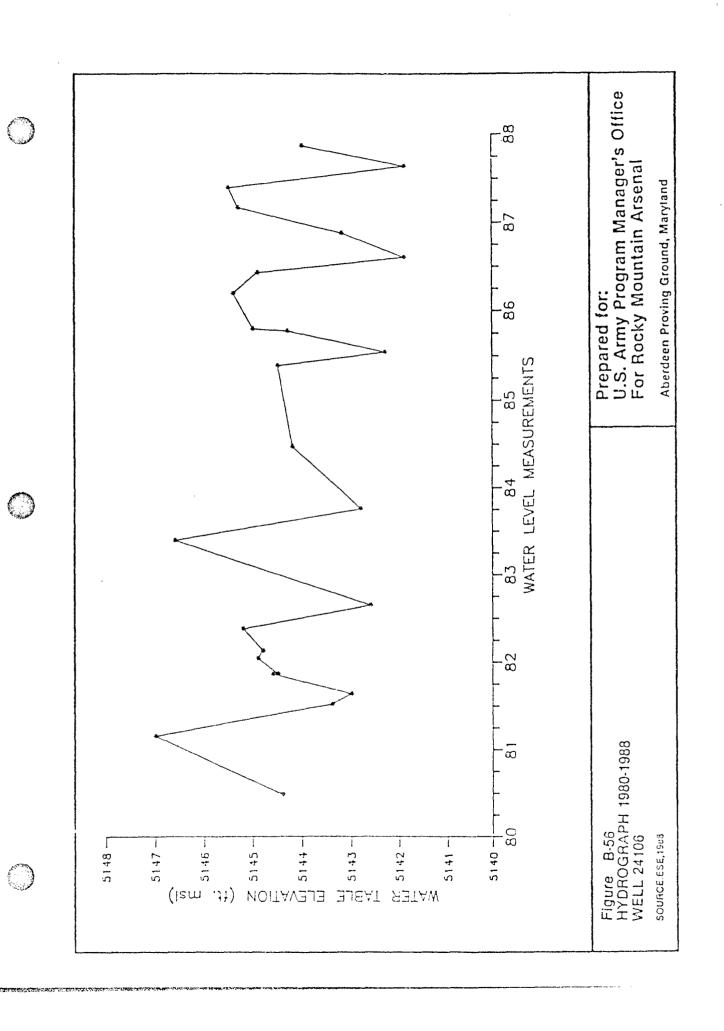


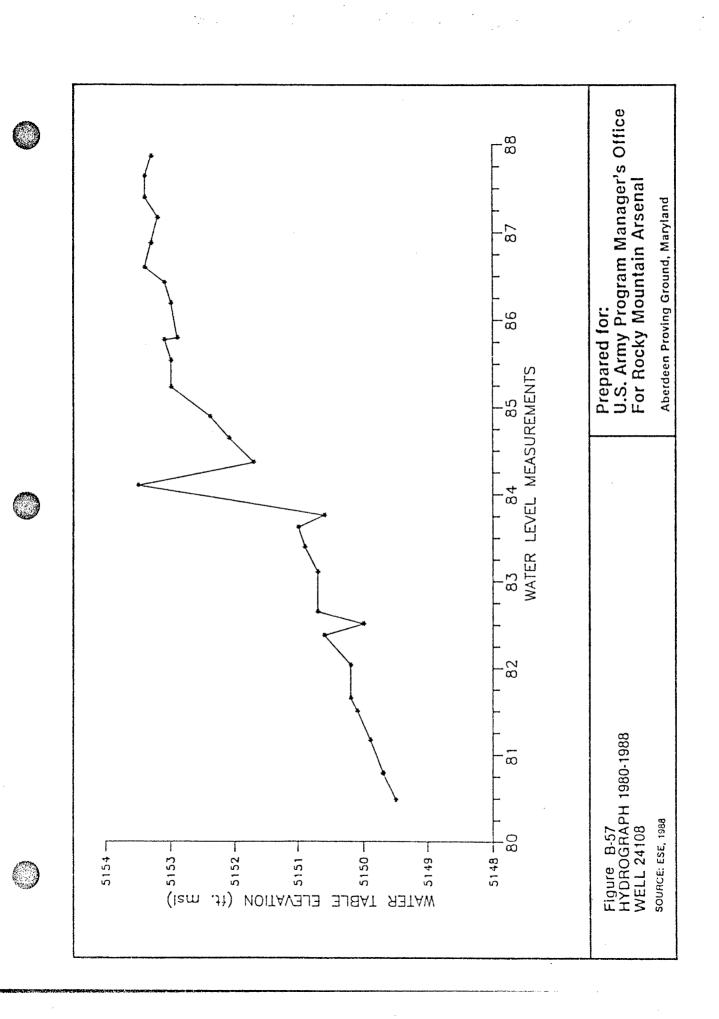


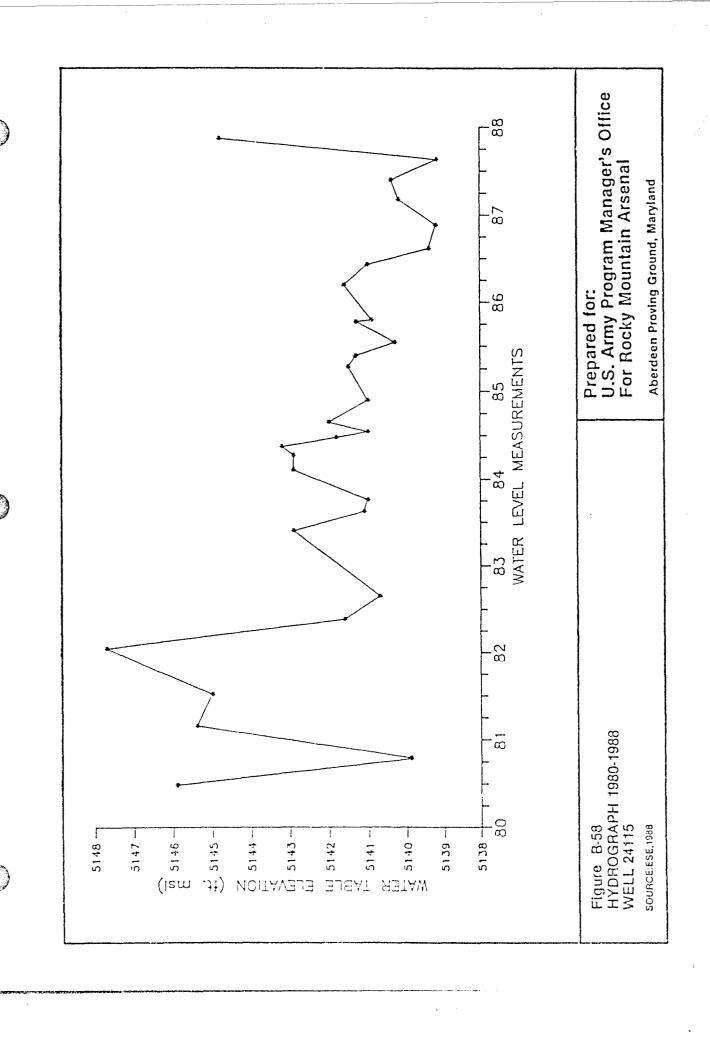


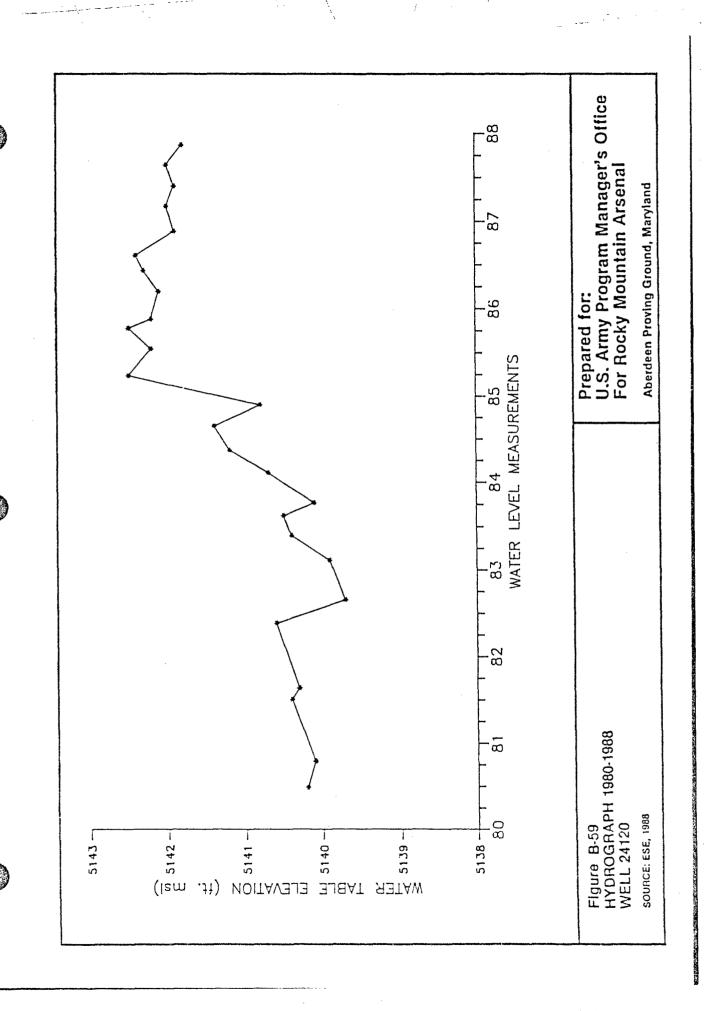


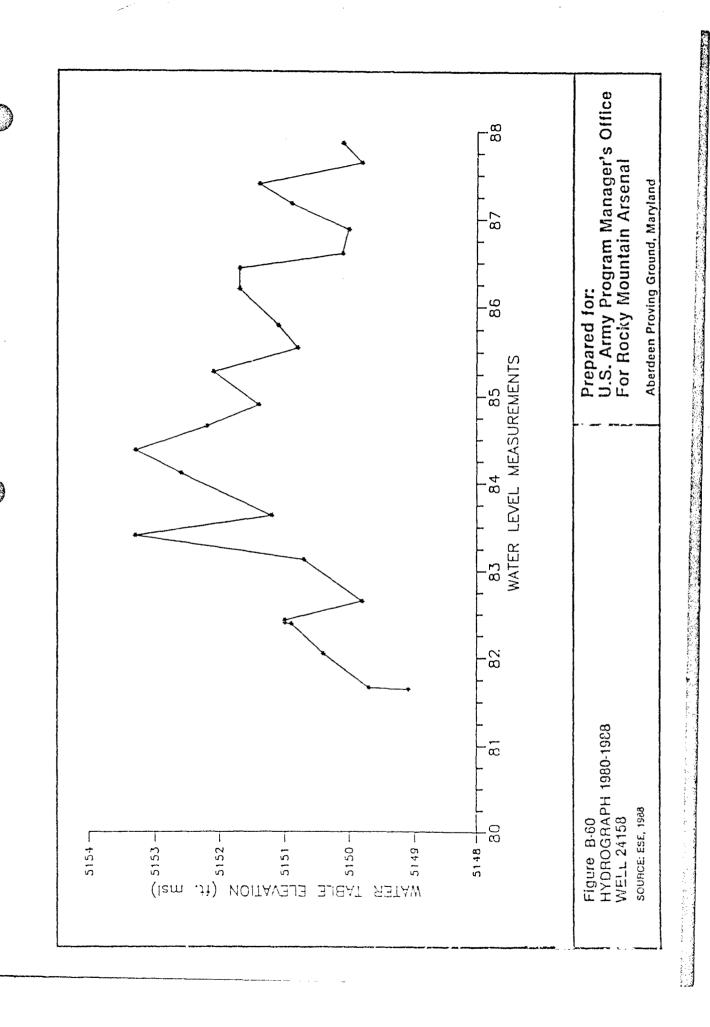


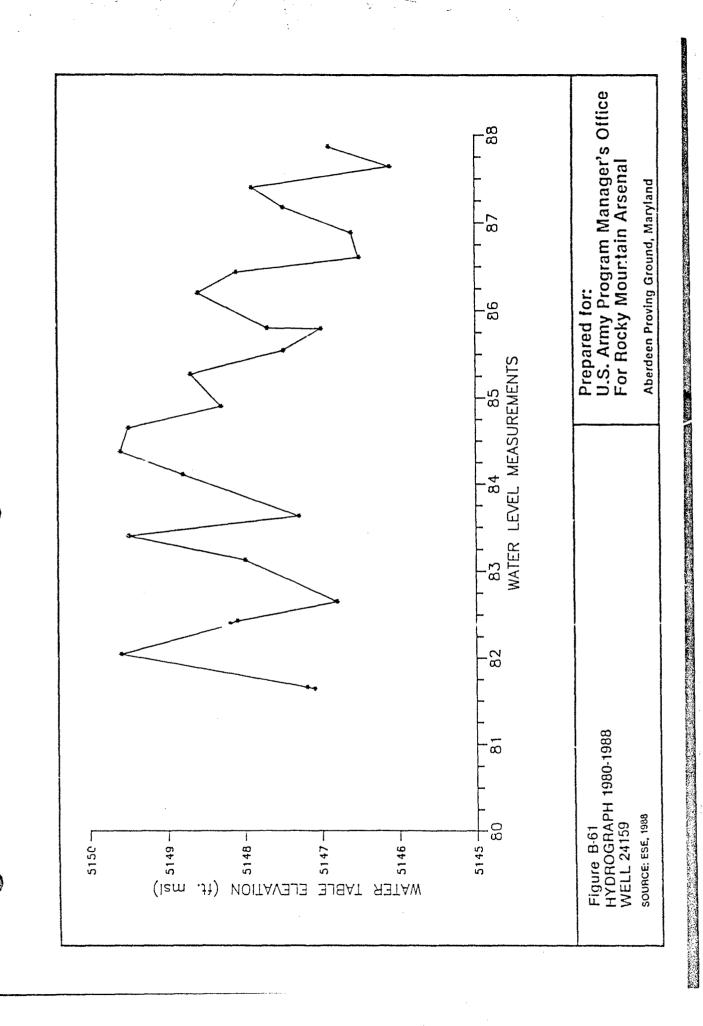


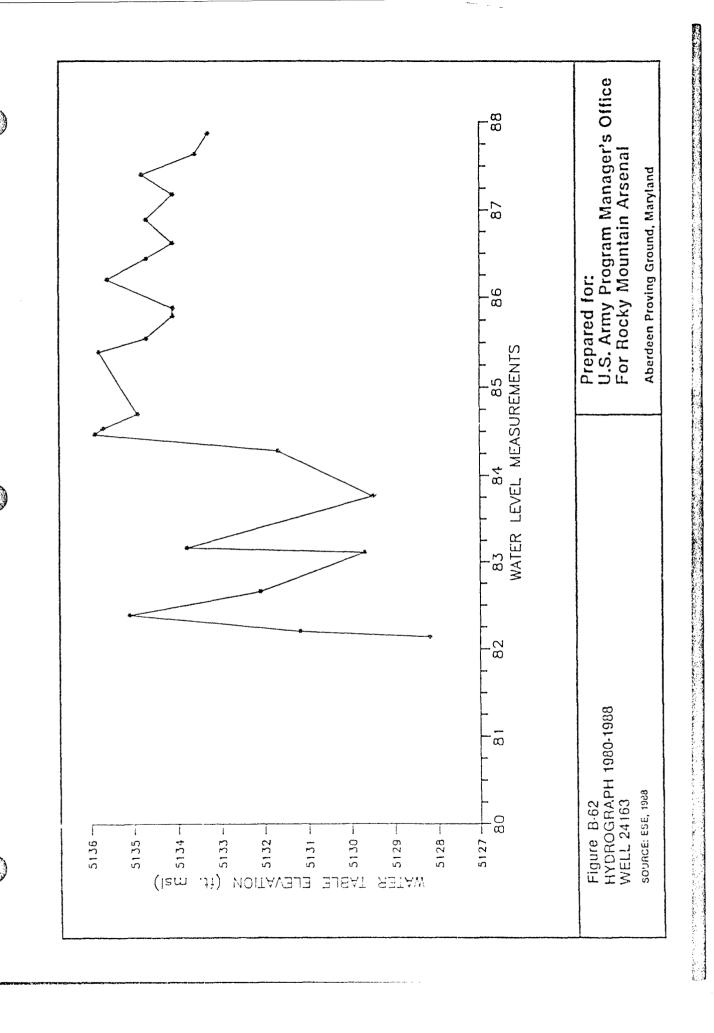


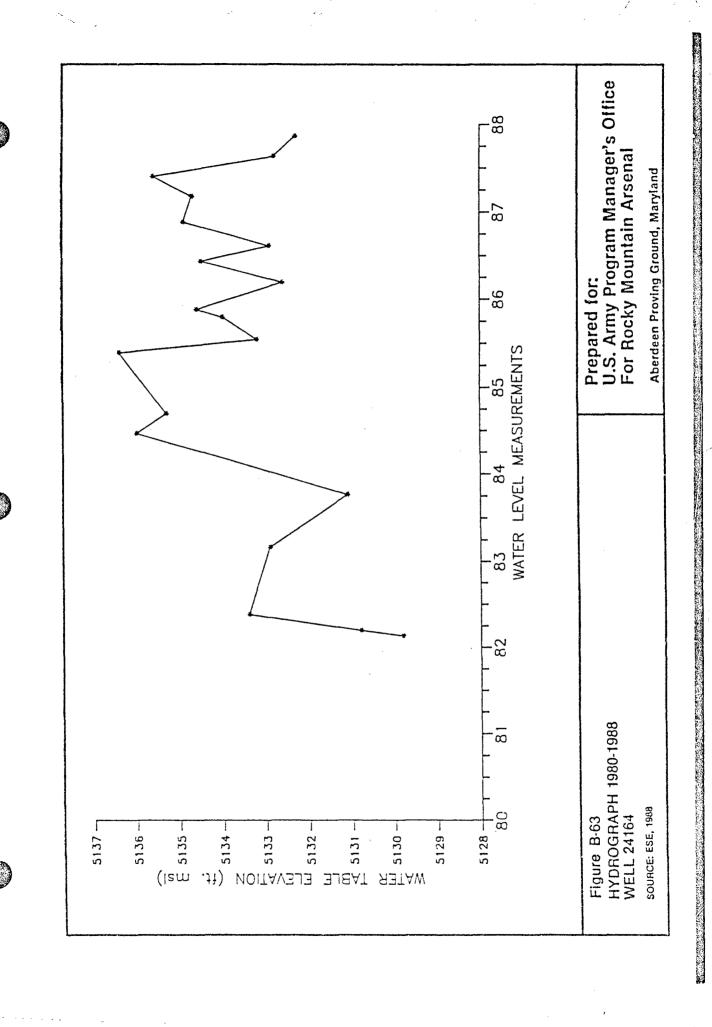


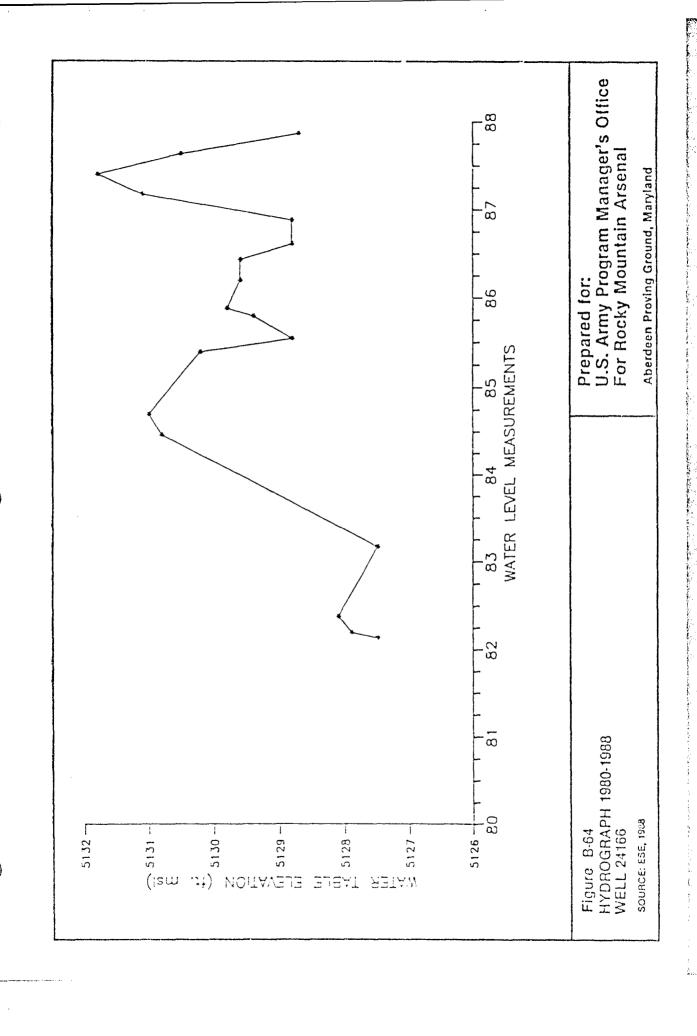


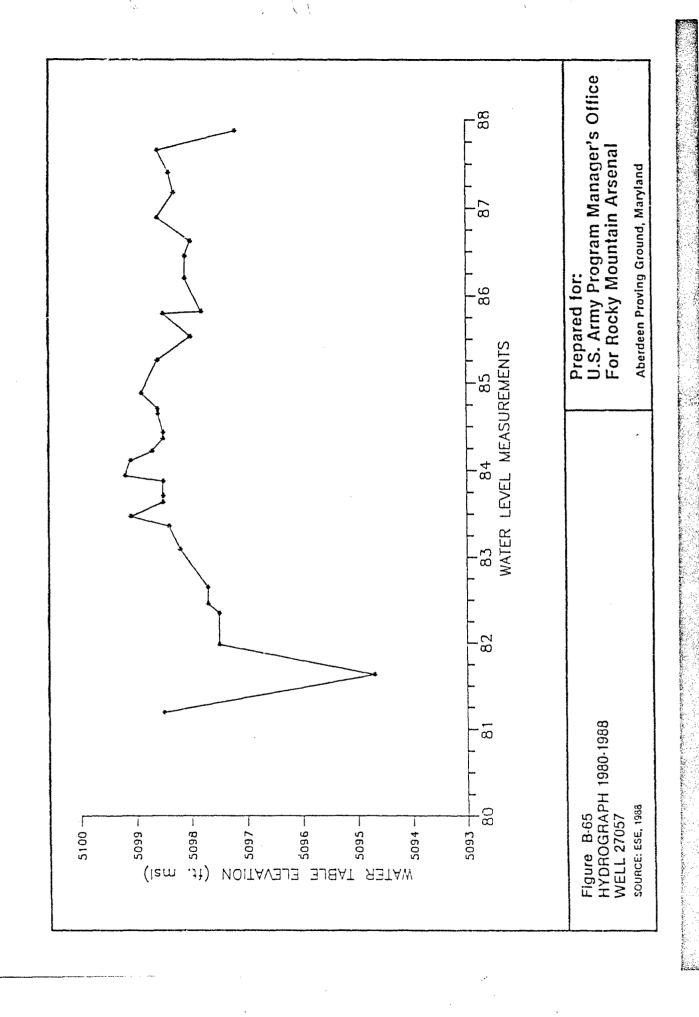




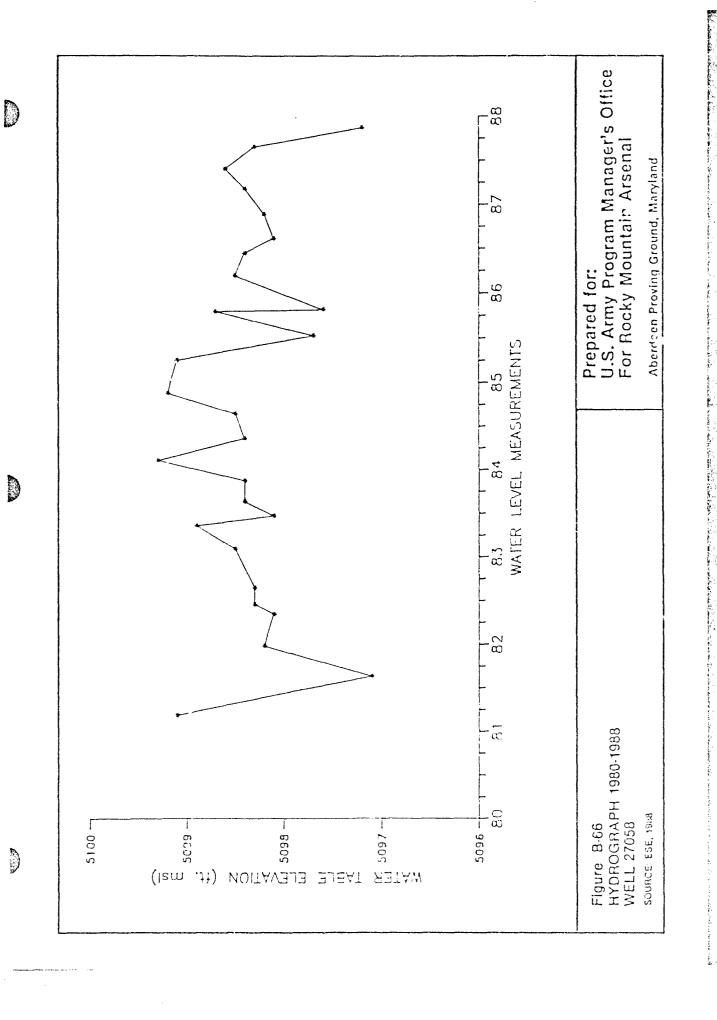








)



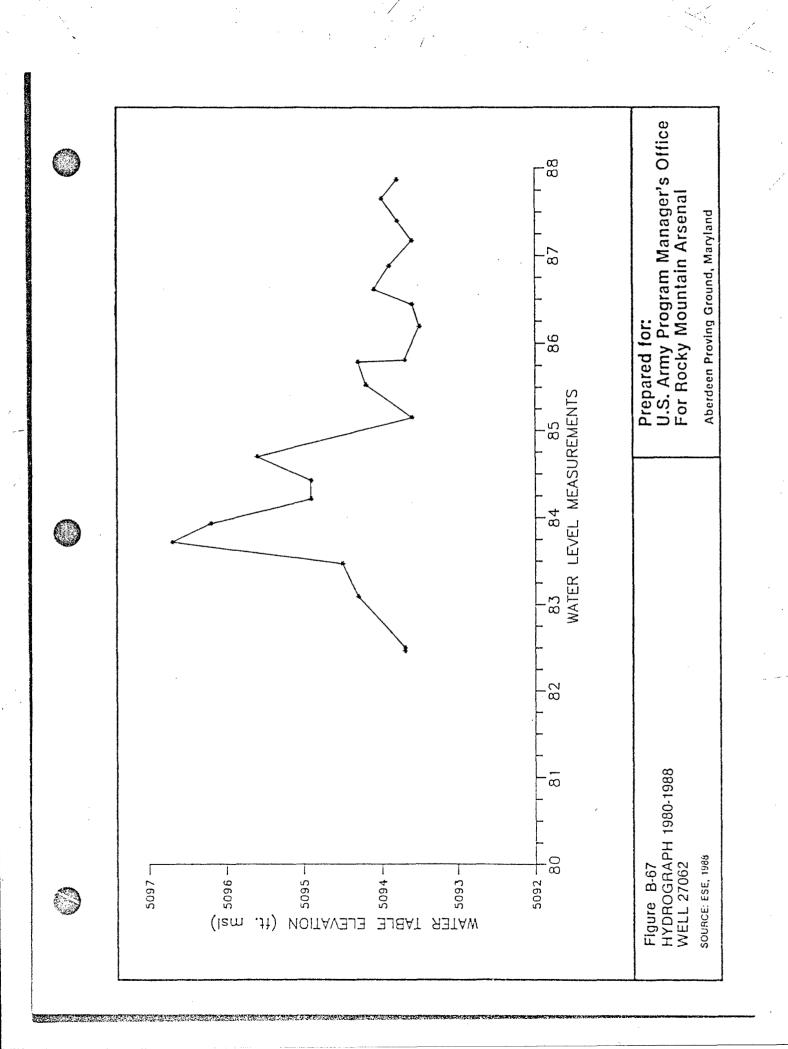
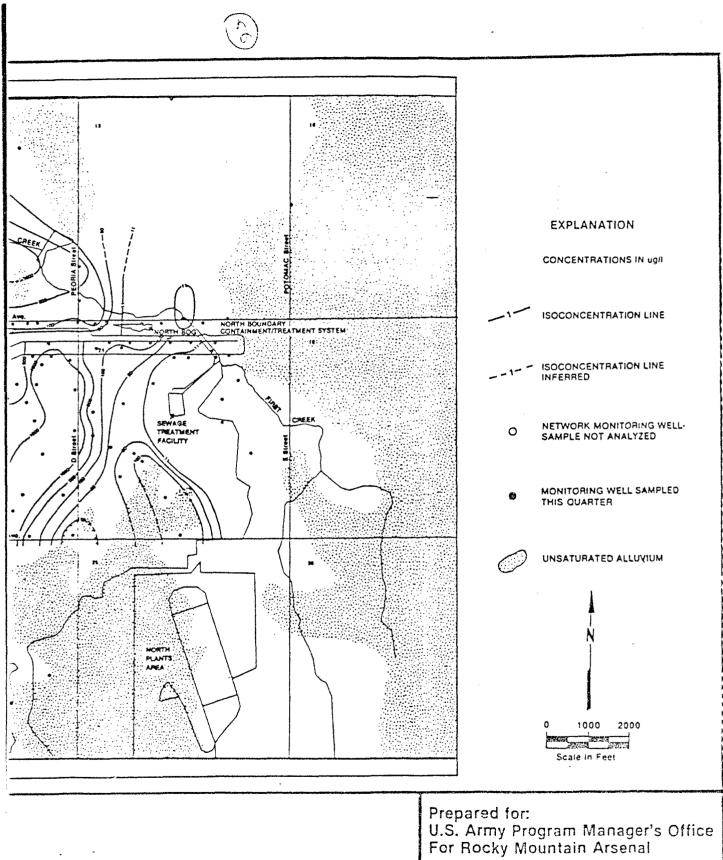


Figure B-68A DIMP CONCENTRATION DISTRIBUTION, ug/l. 1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE.ESE 1988



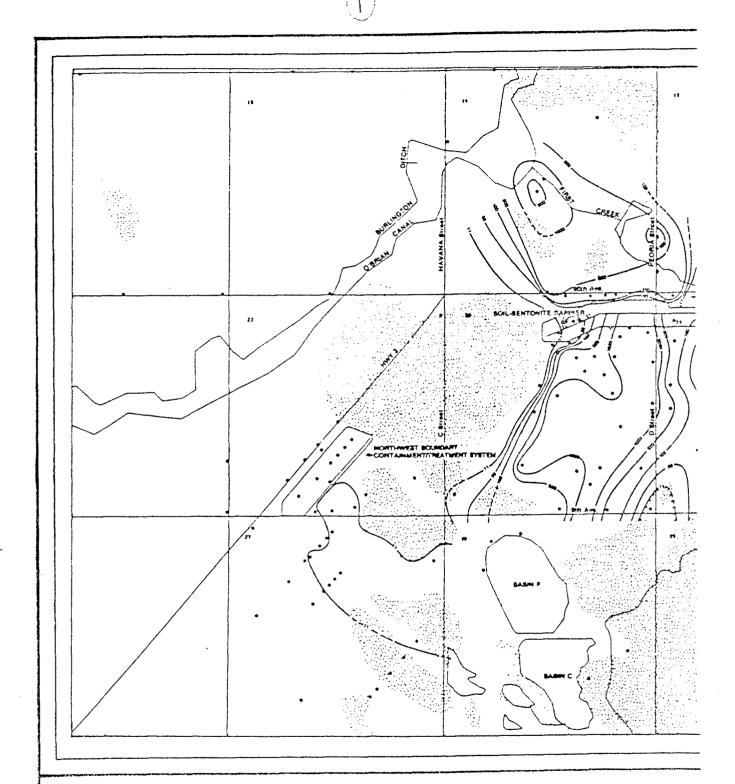
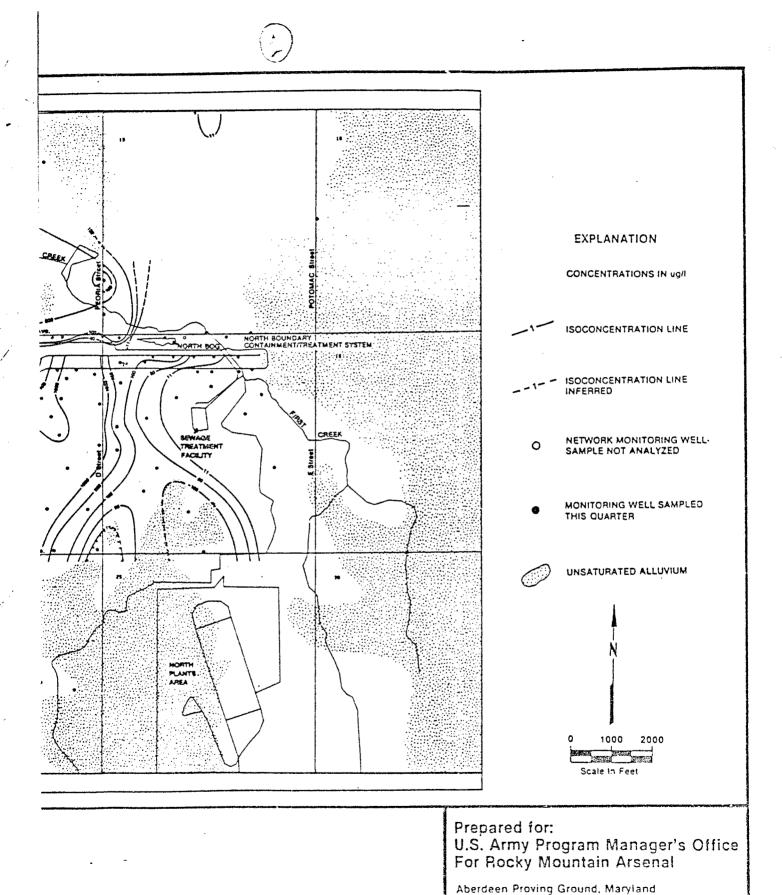


Figure B-68 B
DIMP CONCENTRATION DISTRIBUTION, ug/l,
2ND QUARTER, FY37, ALLUVIAL AQUIFER

SOURCE ESE 1988



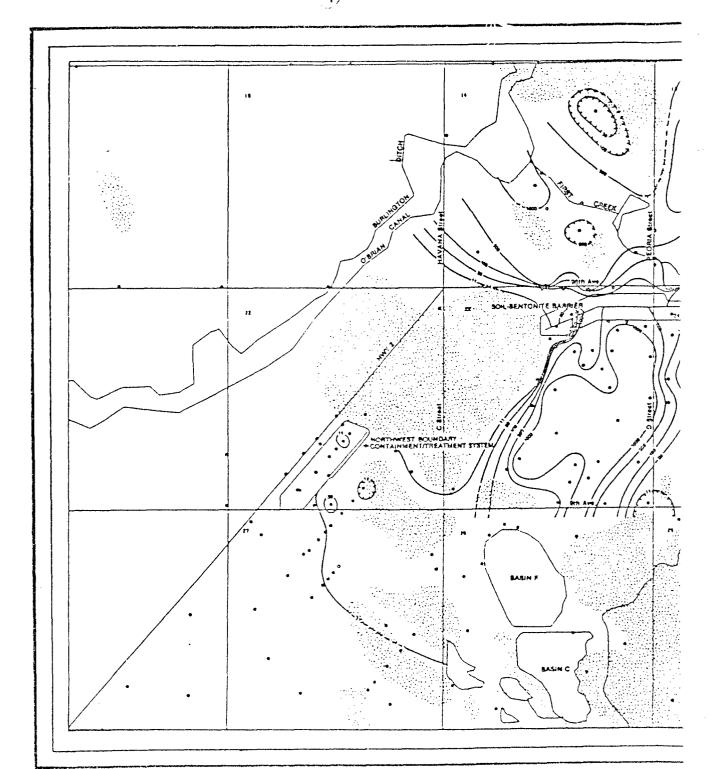


Figure B-68C DIMP CONCENTRATION DISTRIBUTION, ug/l, 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE.ESE.1088



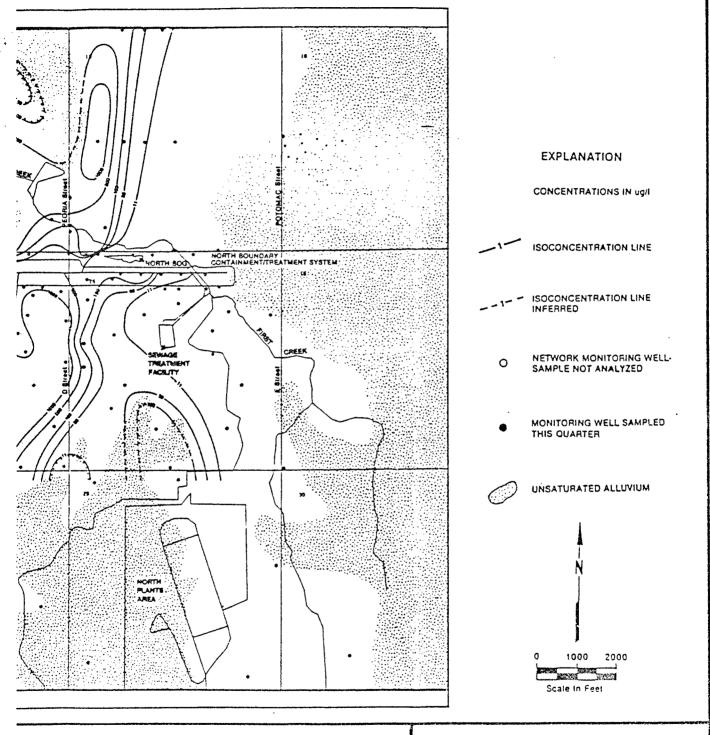
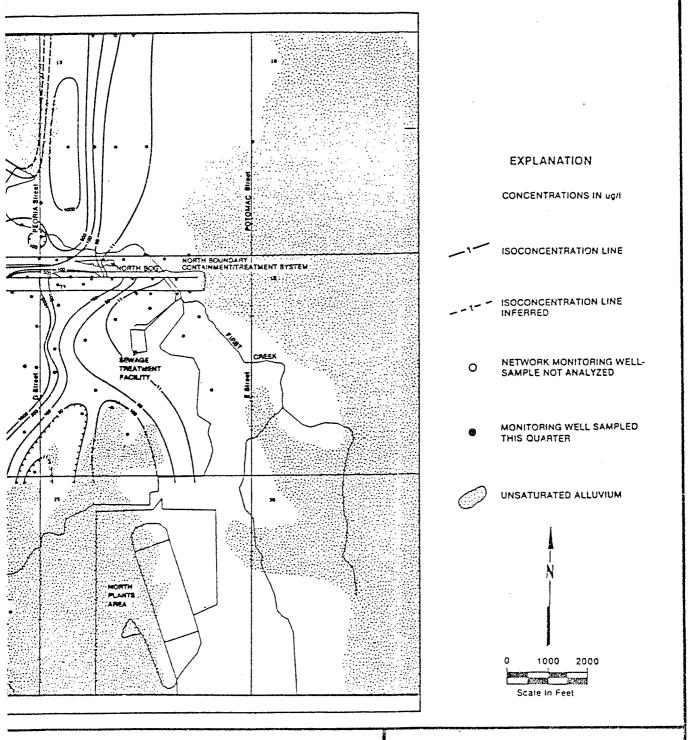




Figure B-68D DIMP CONCENTRATION DISTRIBUTION, ug/l, 4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988



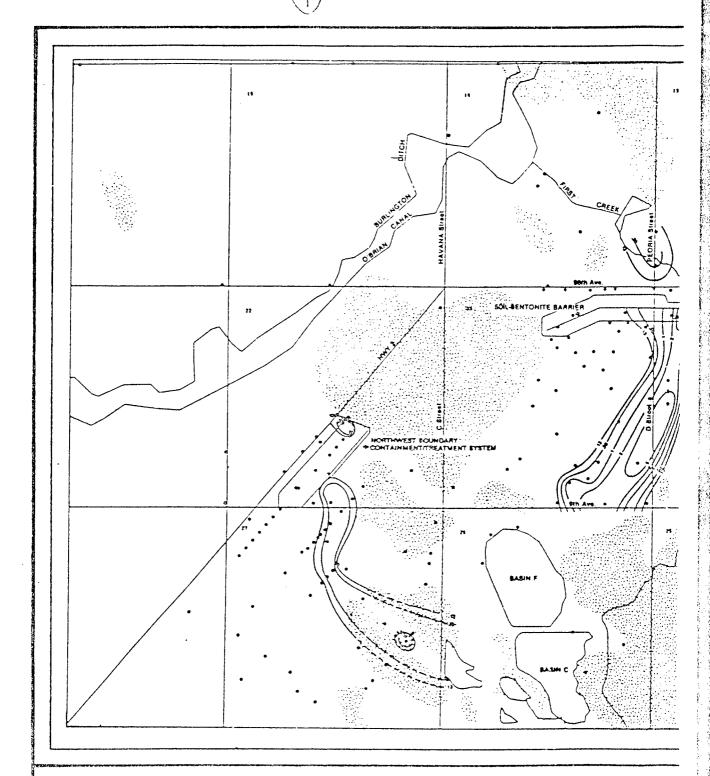
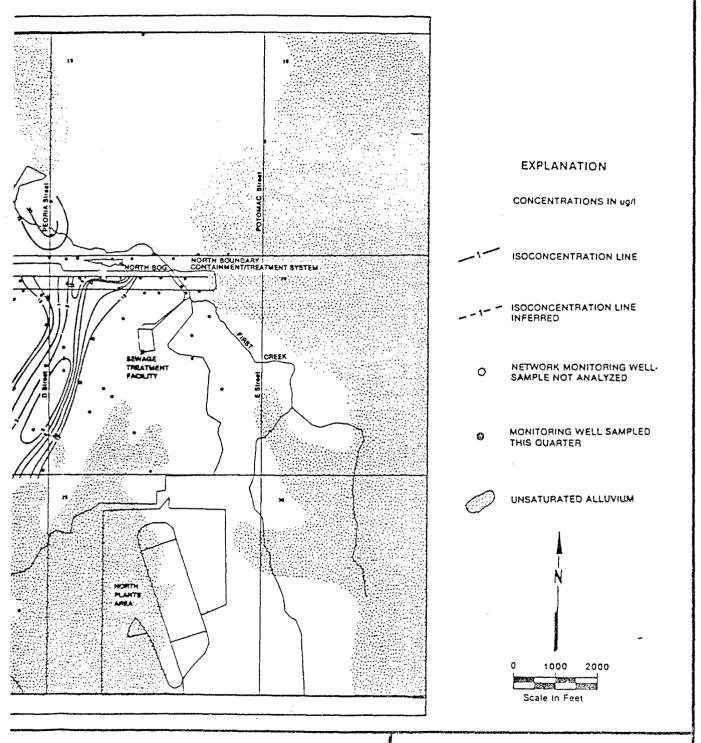


Figure 8-69A DBCP CONCENTRATION DISTRIBUTION, ug/l, 1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE.ESE,1988





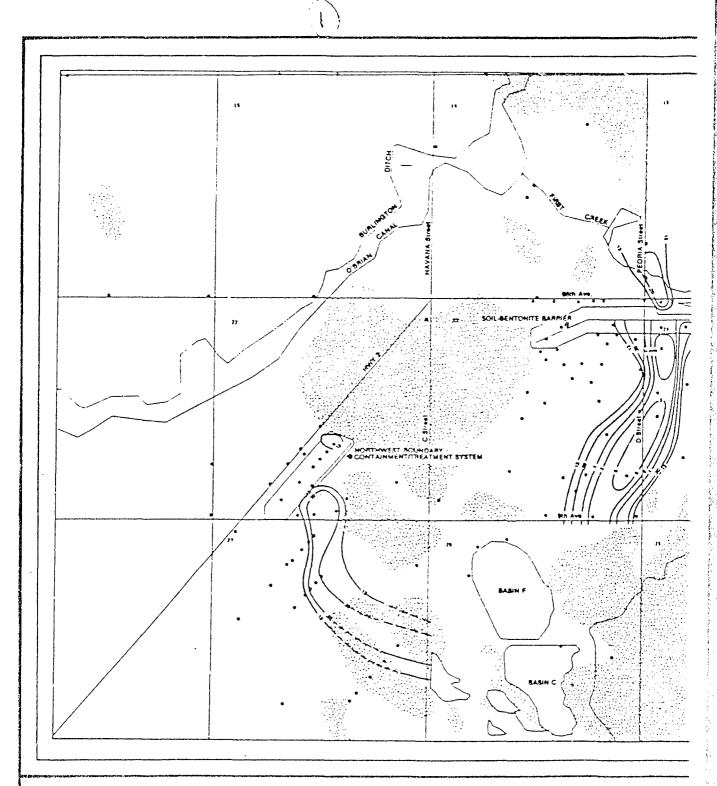
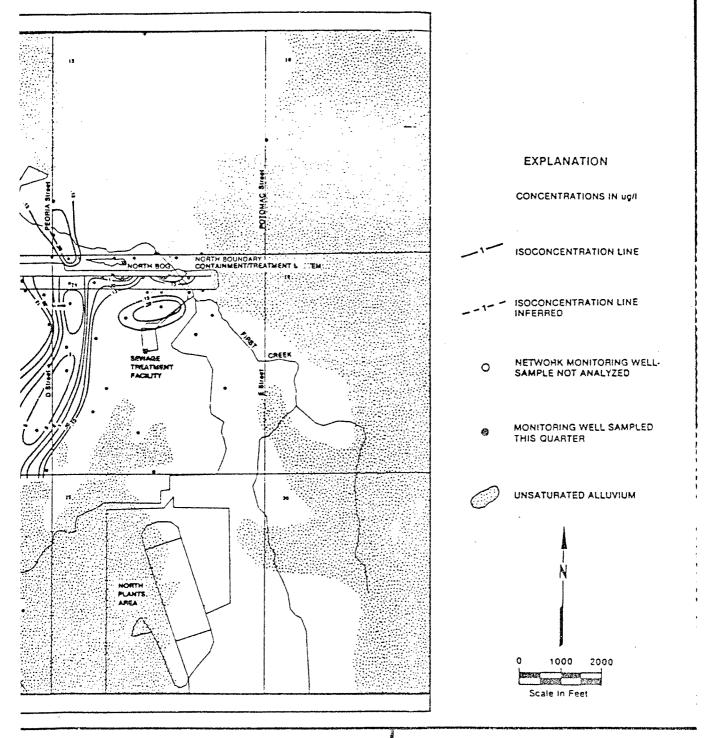


Figure B-69 B DBCP CONCENTRATION DISTRIBUTION, ug/l, 2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988





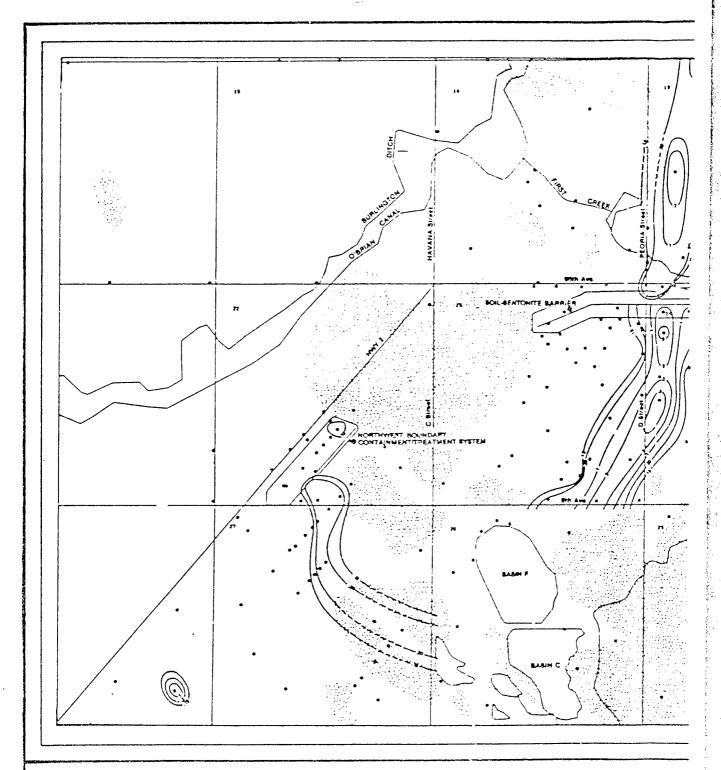
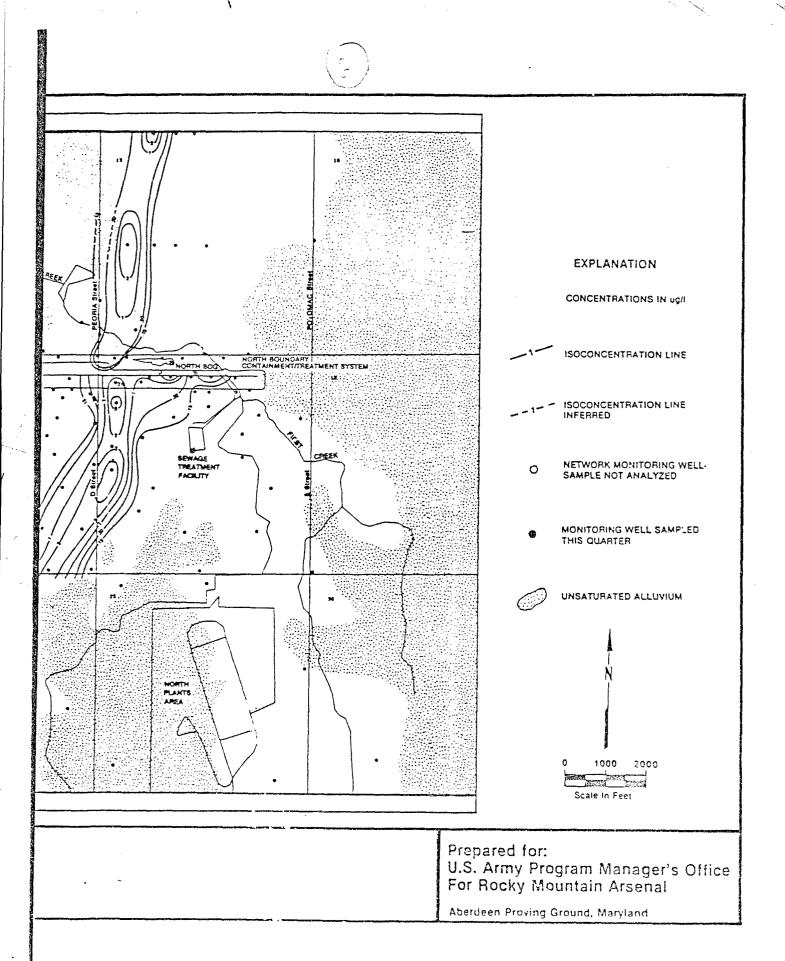


Figure B-69 C DBCP CONCENTRATION DISTRIBUTION, ug/I, 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988



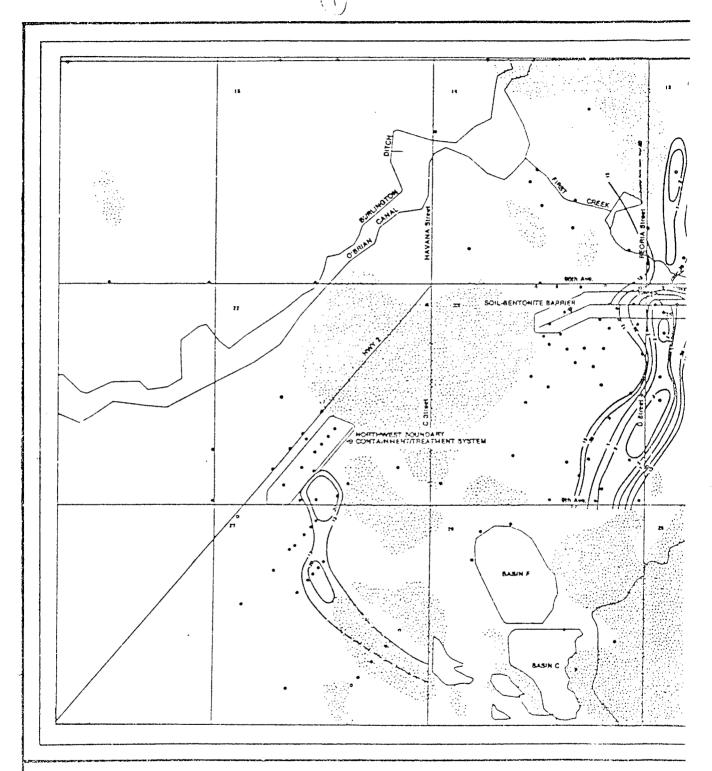
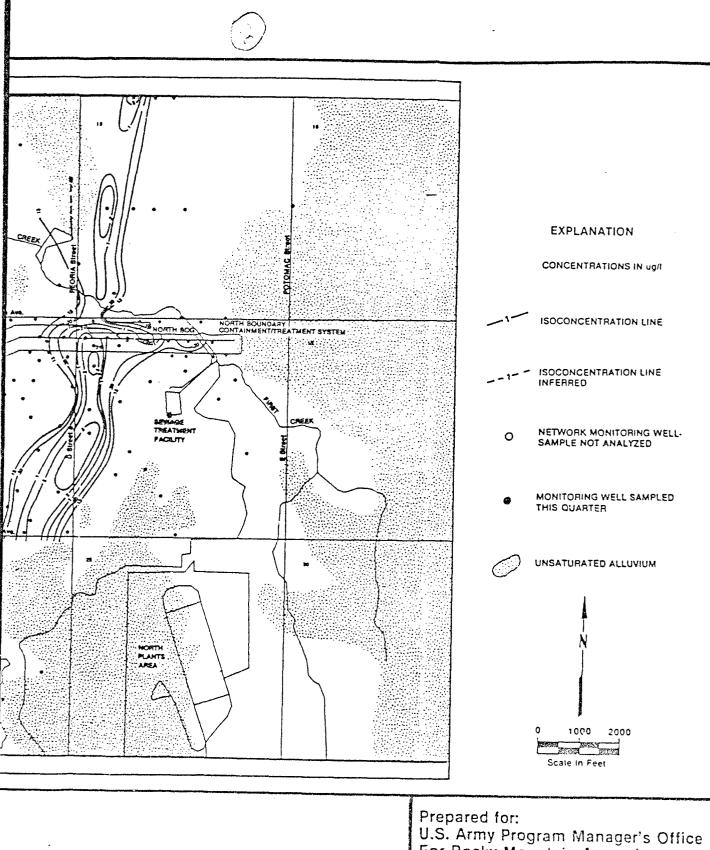


Figure B-69 D DBC? CONCENTRATION DISTRIBUTION, ug/I, 4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE.ESE,1988



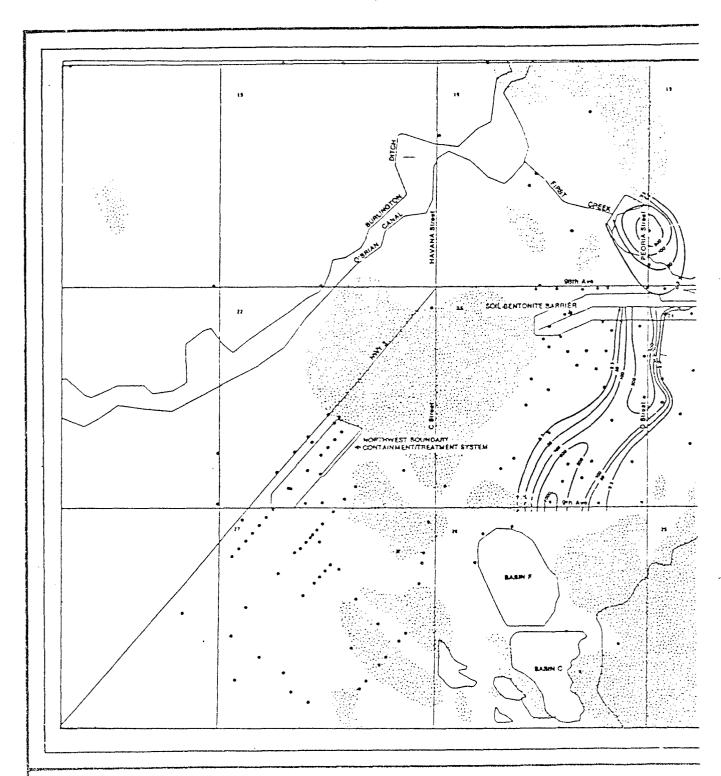
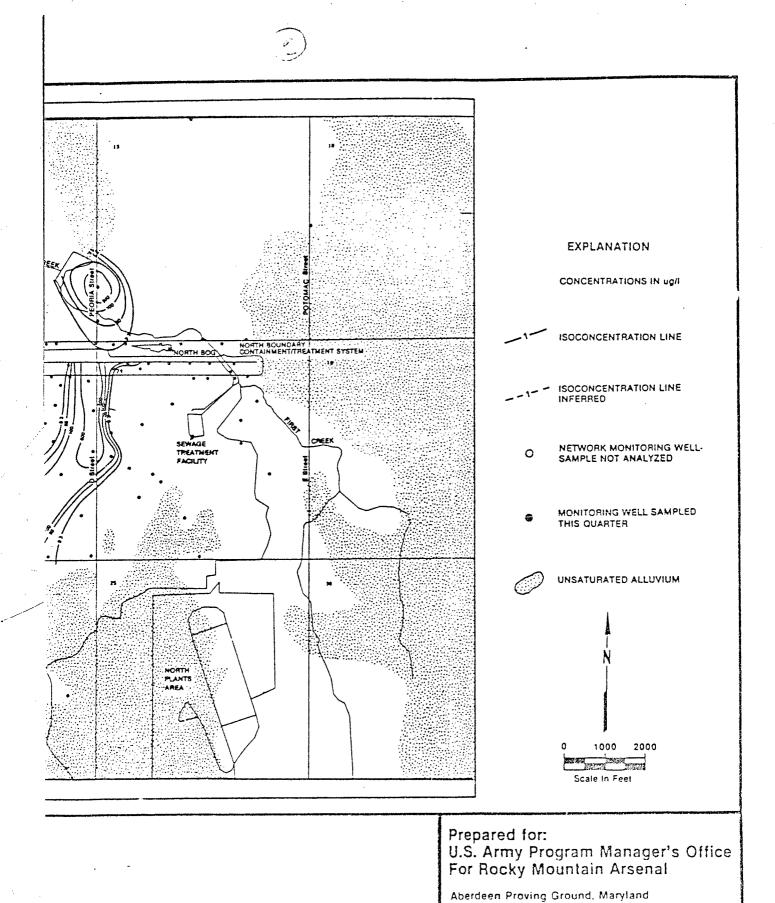


Figure 8-70A DCPD CONCENTRATION DISTRIBUTION, ug/l, 1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE:ESE.1988



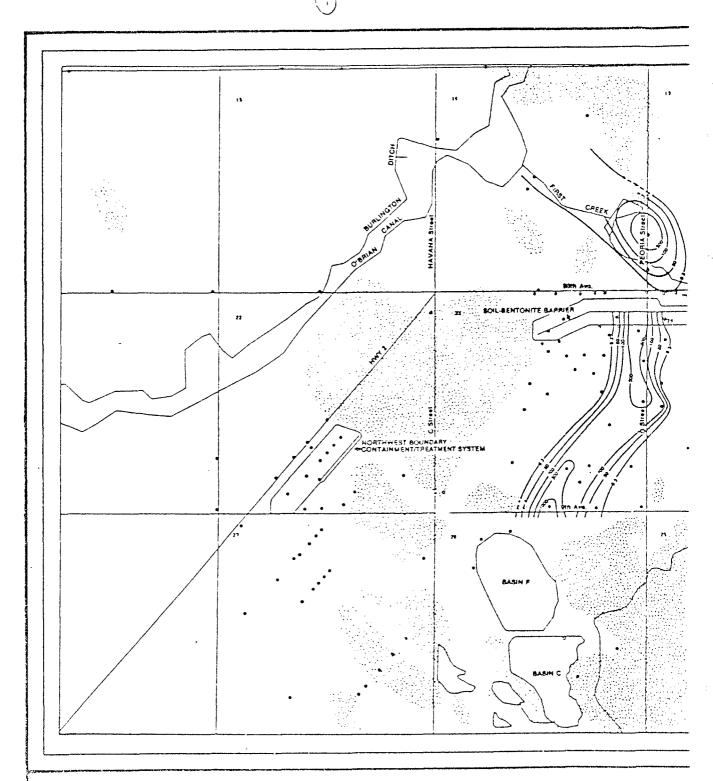
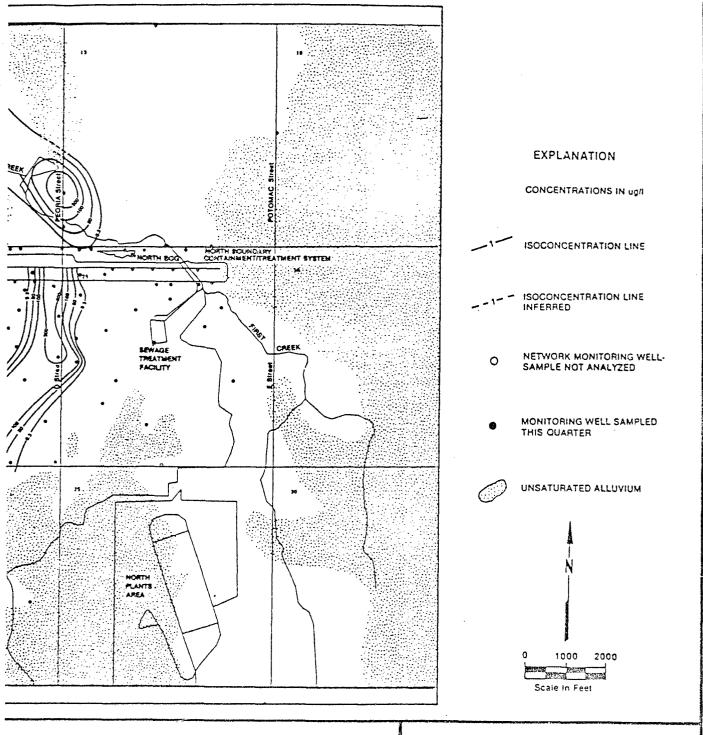


Figure 8-70 B DOPD CONCENTRATION DISTRIBUTION, ug/l, 2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988



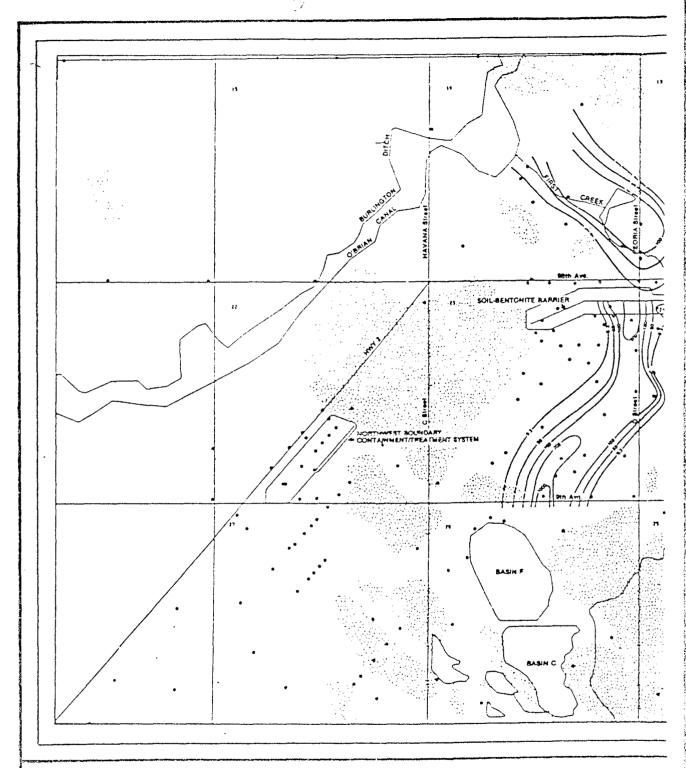
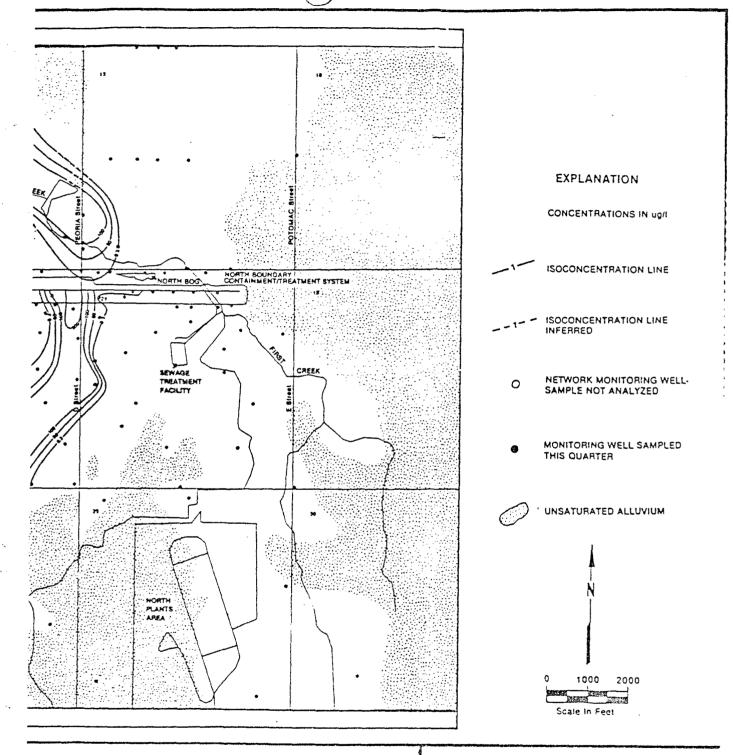


Figure 8-70 C DCPD CONCENTRATION DISTRIBUTION, ug/l, 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE.ESE 1988



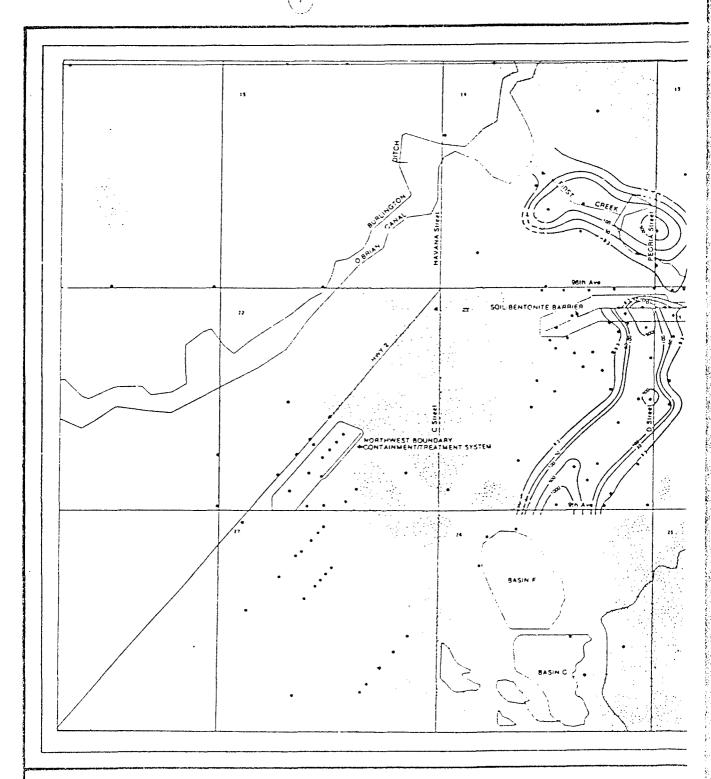
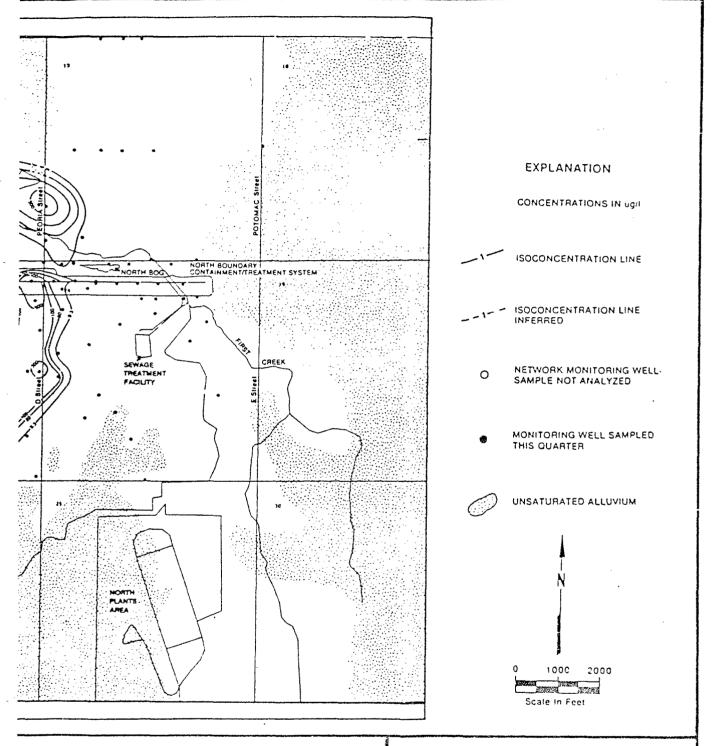


Figure B-70D DCPD CONCENTRATION DISTRIBUTION, ug/l, 4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988





THIS PAGH MISSING ORIGINAL OCUMBINT

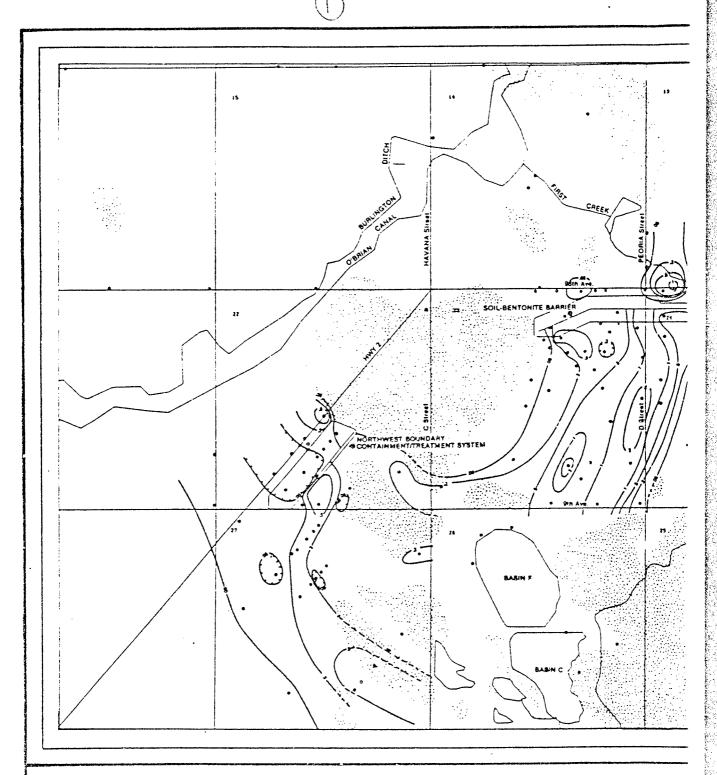
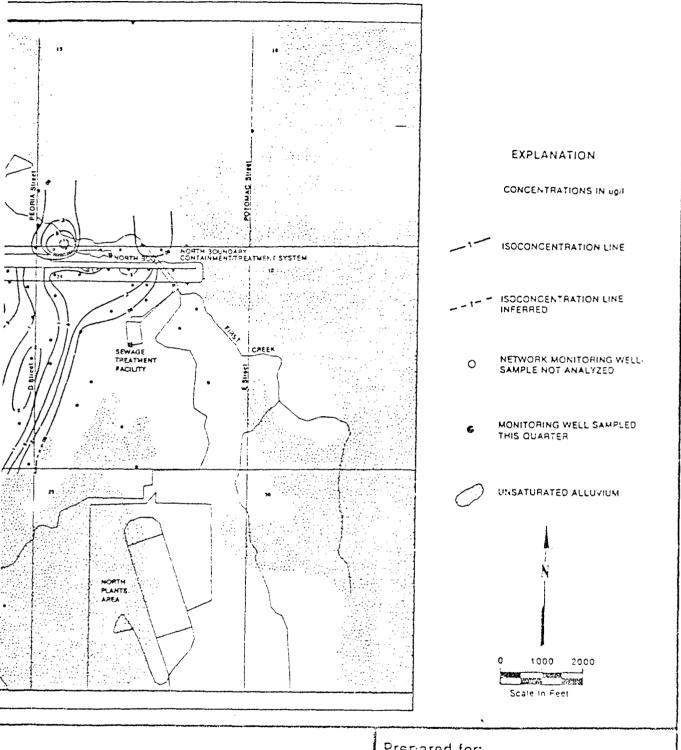


Figure B-71 B
DIELDRIN CONCENTRATION DISTRIBUTION, ug/l,
2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOUPCE.ESE, 1983



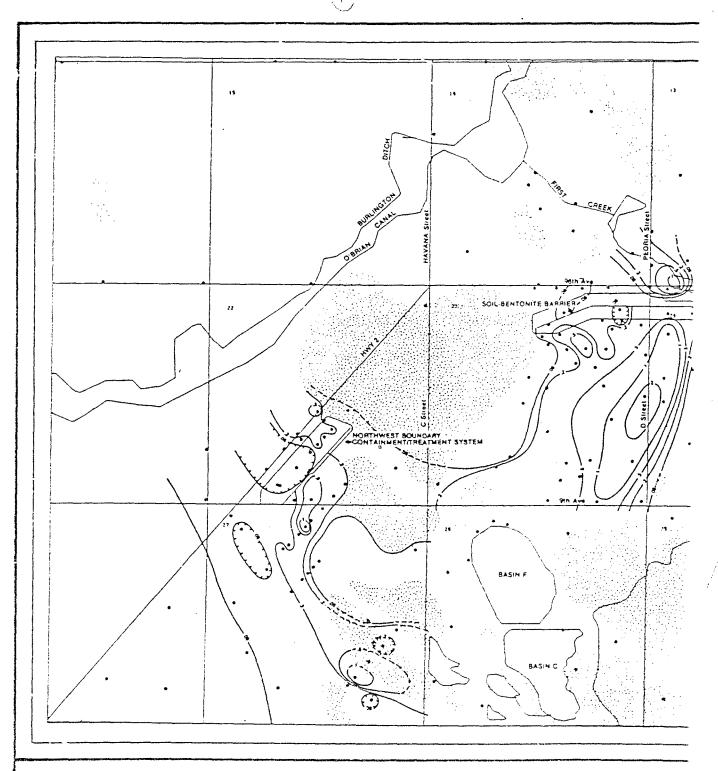
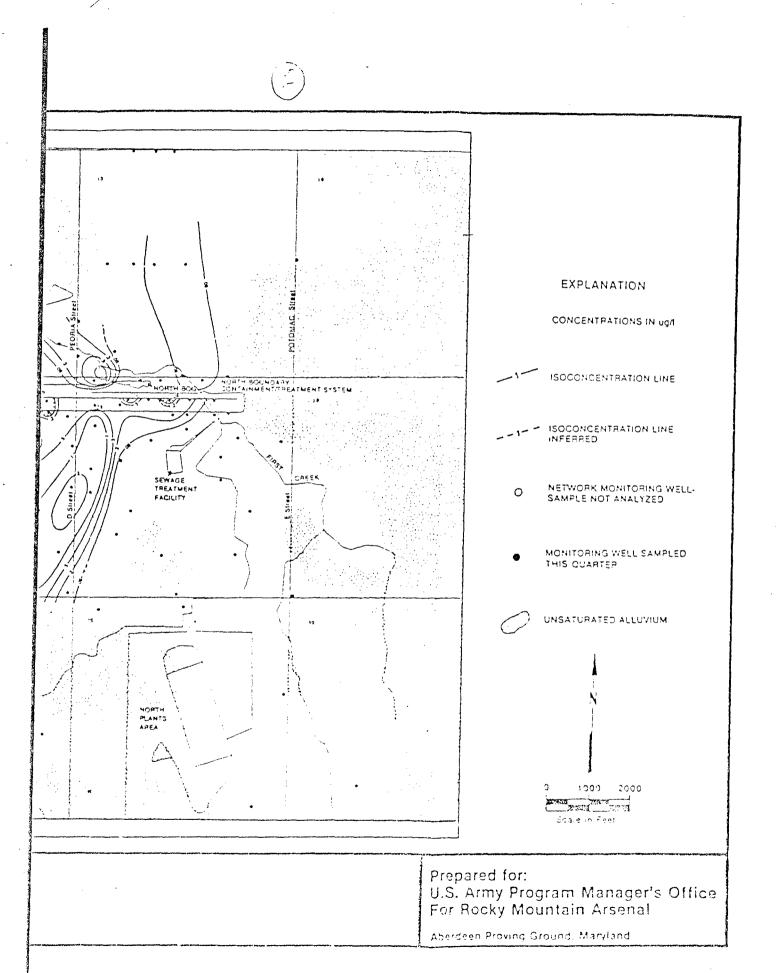


Figure B-71C DIELDRIN CONCENTRATION DISTRIBUTION, ug/l, 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE:ESE,1988



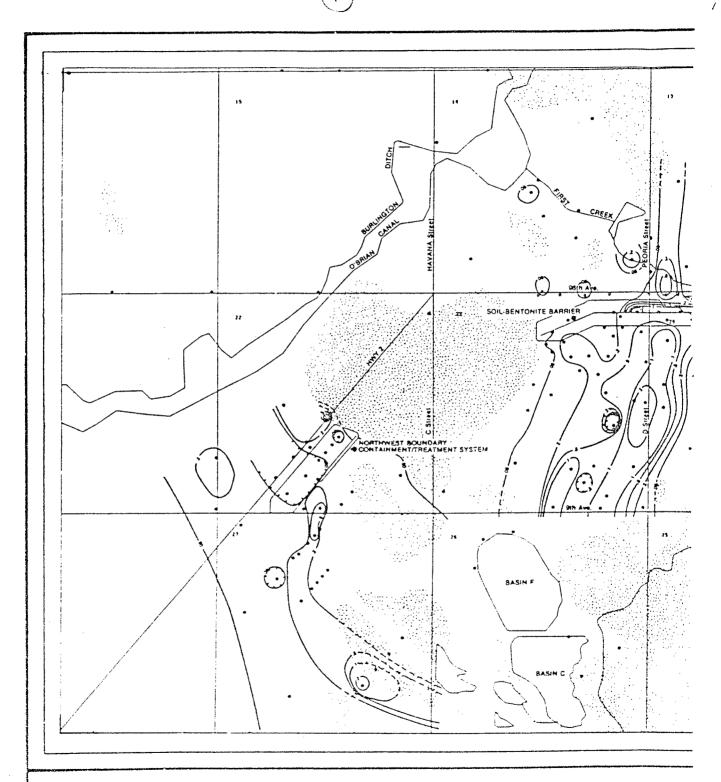
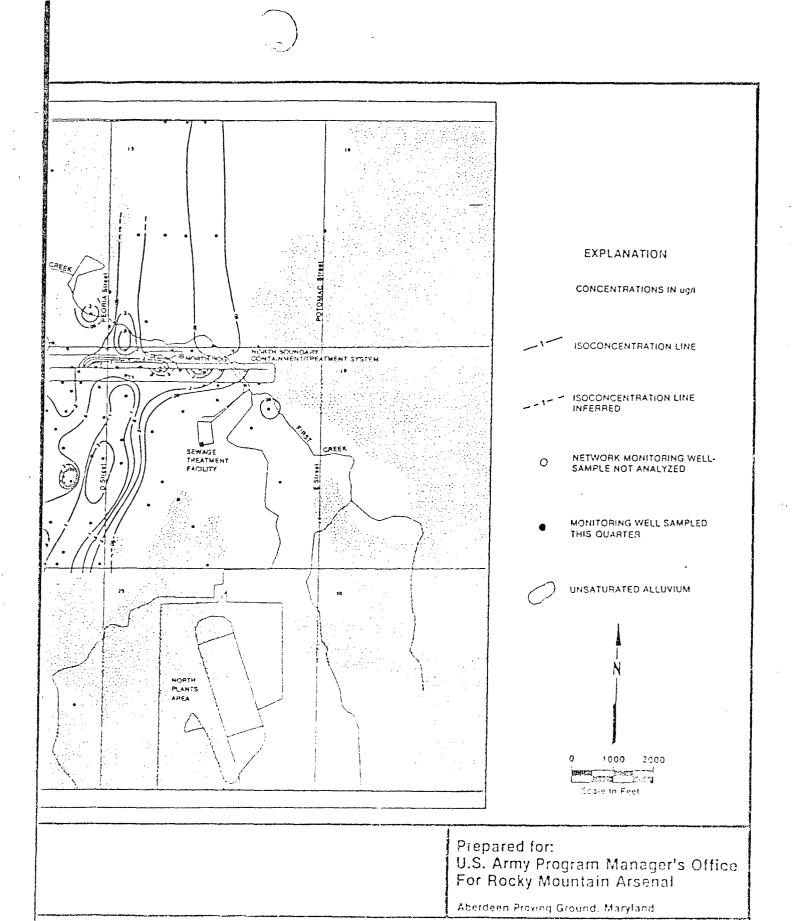


Figure 8-71 D
DIELDRIN CONCENTRATION DISTRIBUTION, ug/l,
4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE.ESE,1988



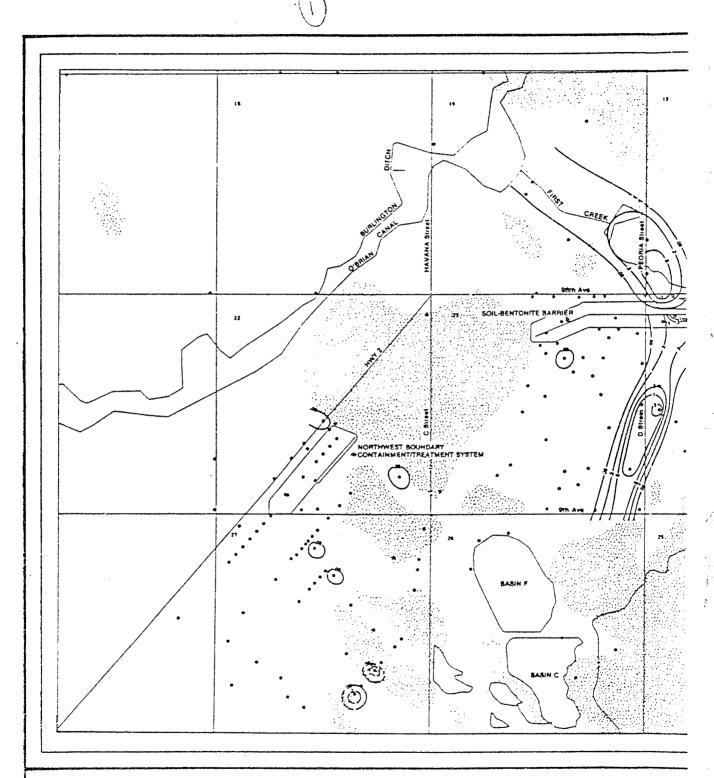
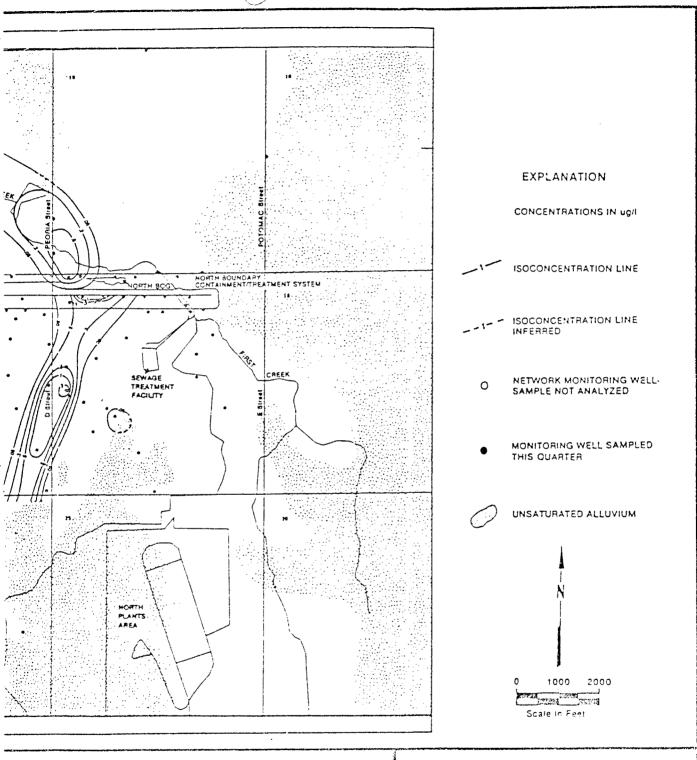


Figure B-72A ENDRIN CONCENTRATION DISTRIBUTION, ug/l, 1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE.ESE 1988



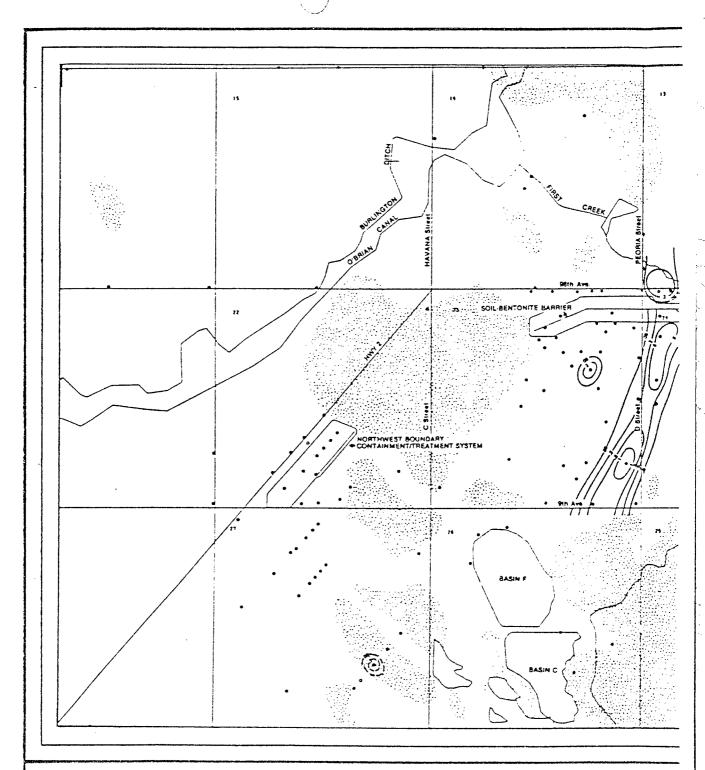
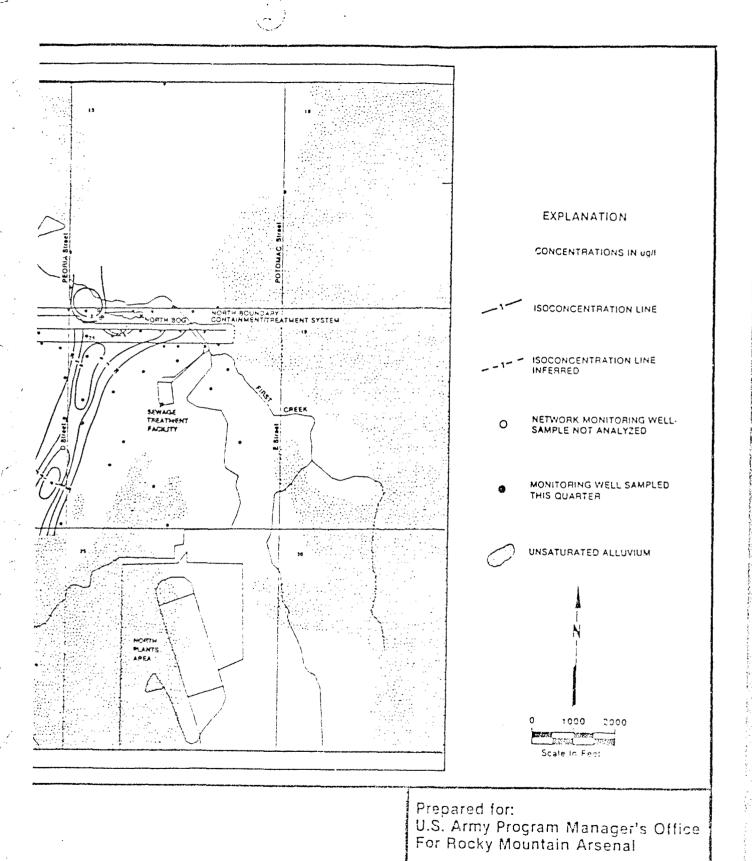


Figure B-72B ENDRIN CONCENTRATION DISTRIBUTION, ug/l, 2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE:ESE,1988



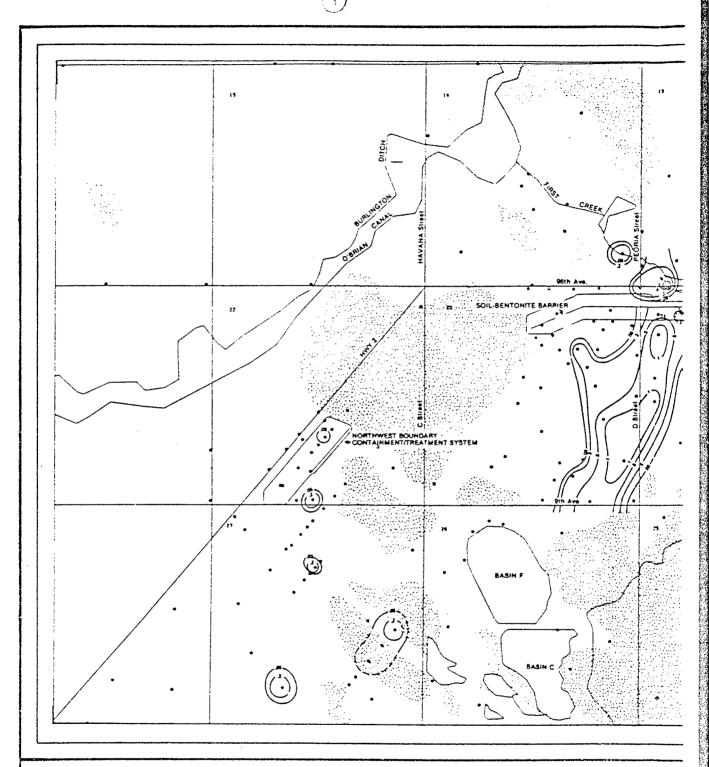
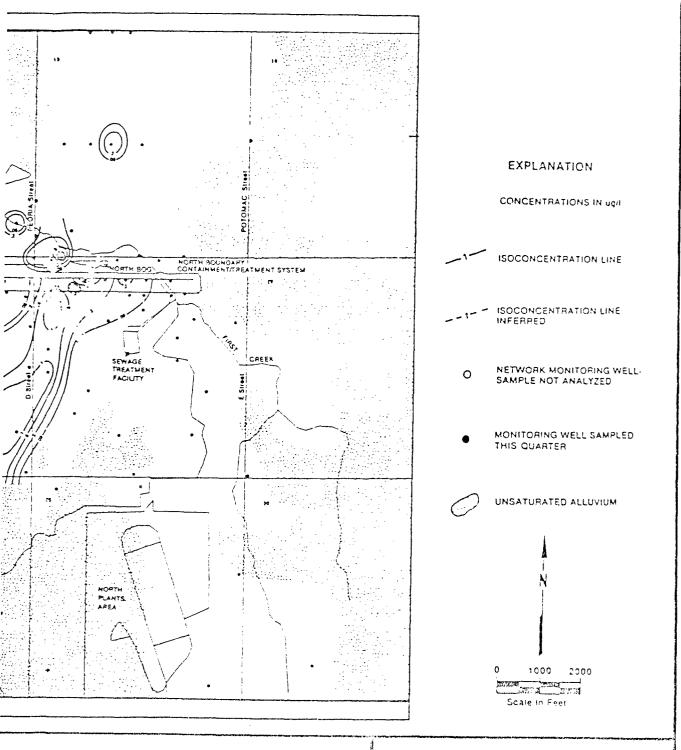


Figure B-72C ENDRIN CONCENTRATION DISTRIBUTION, ug/l, 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE:ESE, 1988



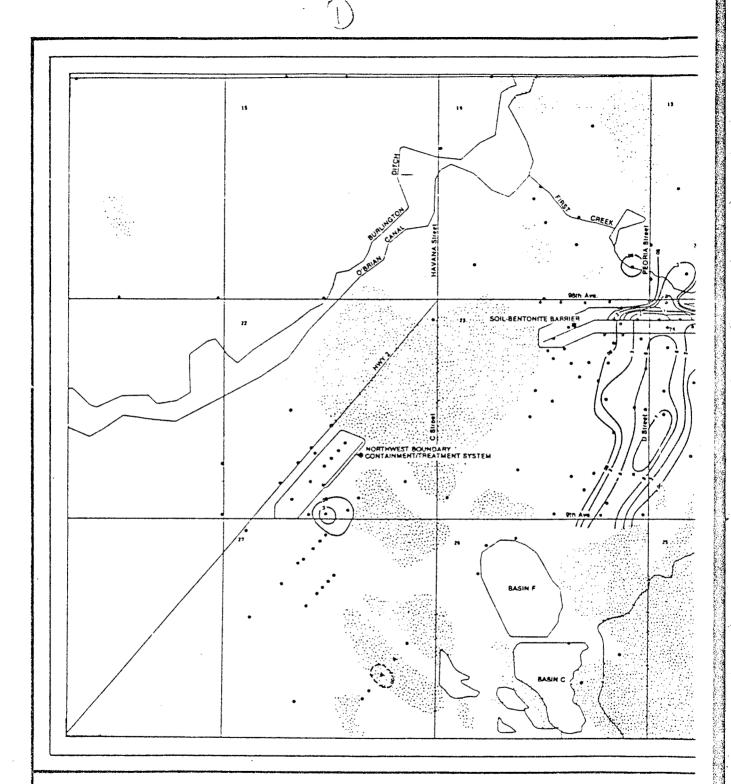
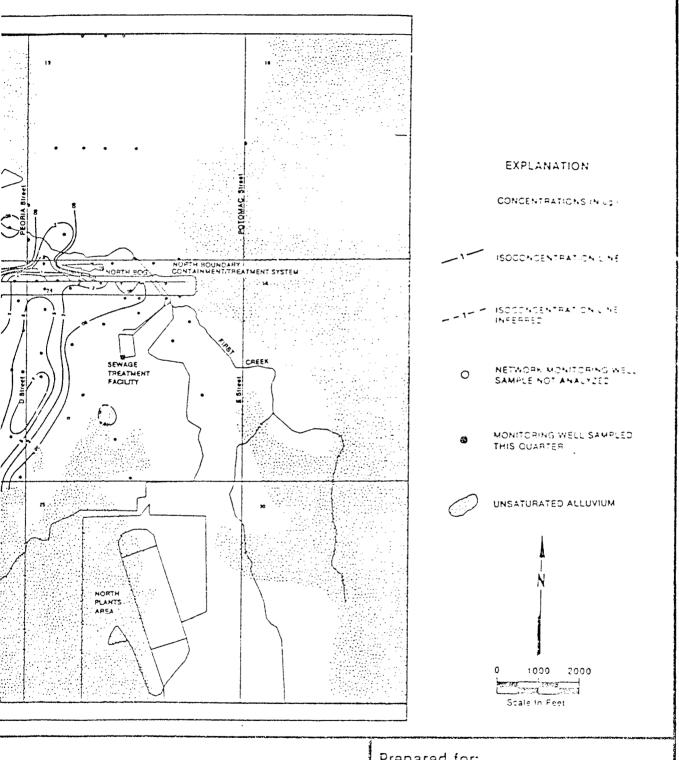


Figure B-72 D ENDRIN CONCENTRATION DISTRIBUTION, ug/l, 4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE.ESE,1988



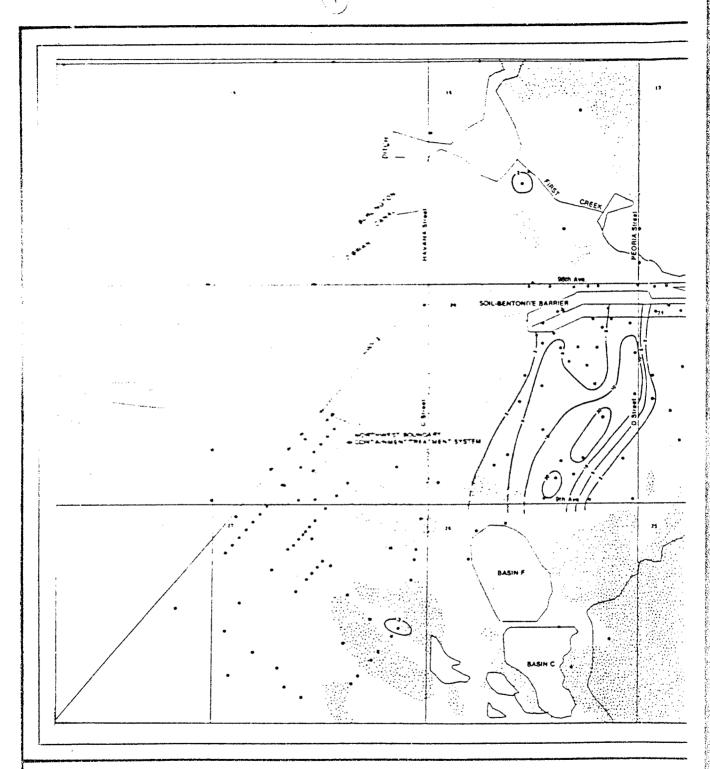
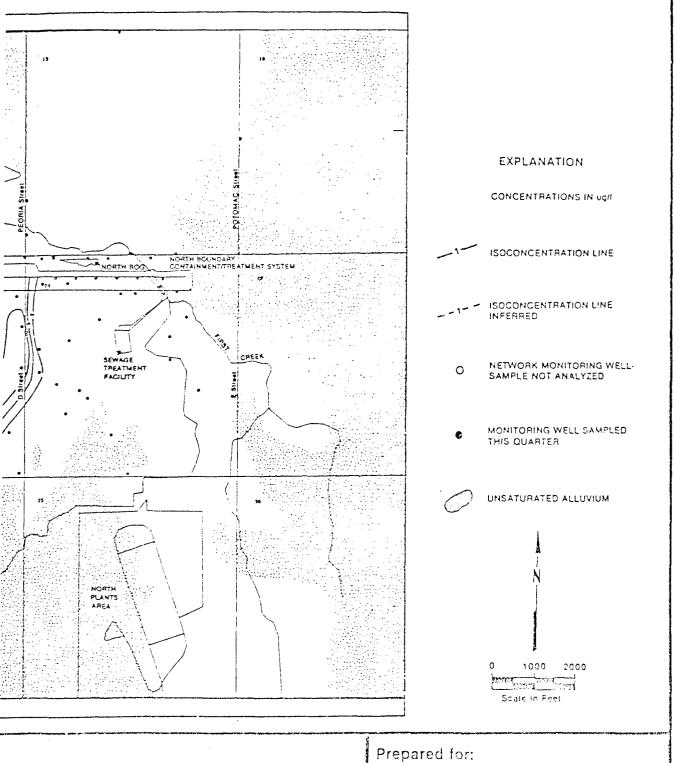


Figure B-73A 1,4-OXATHIANE CONCENTRATION DISTRIBUTION,ug/I 1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE.ESE.1988



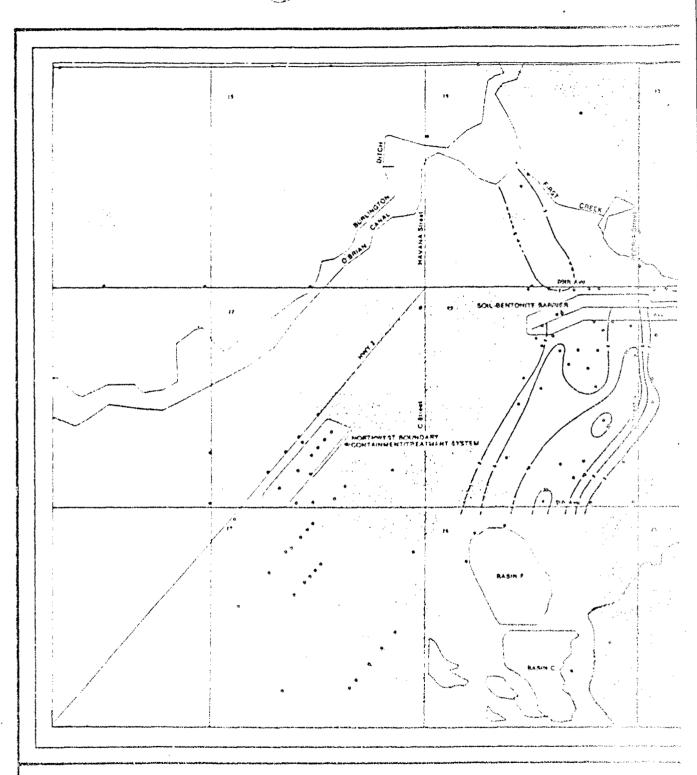
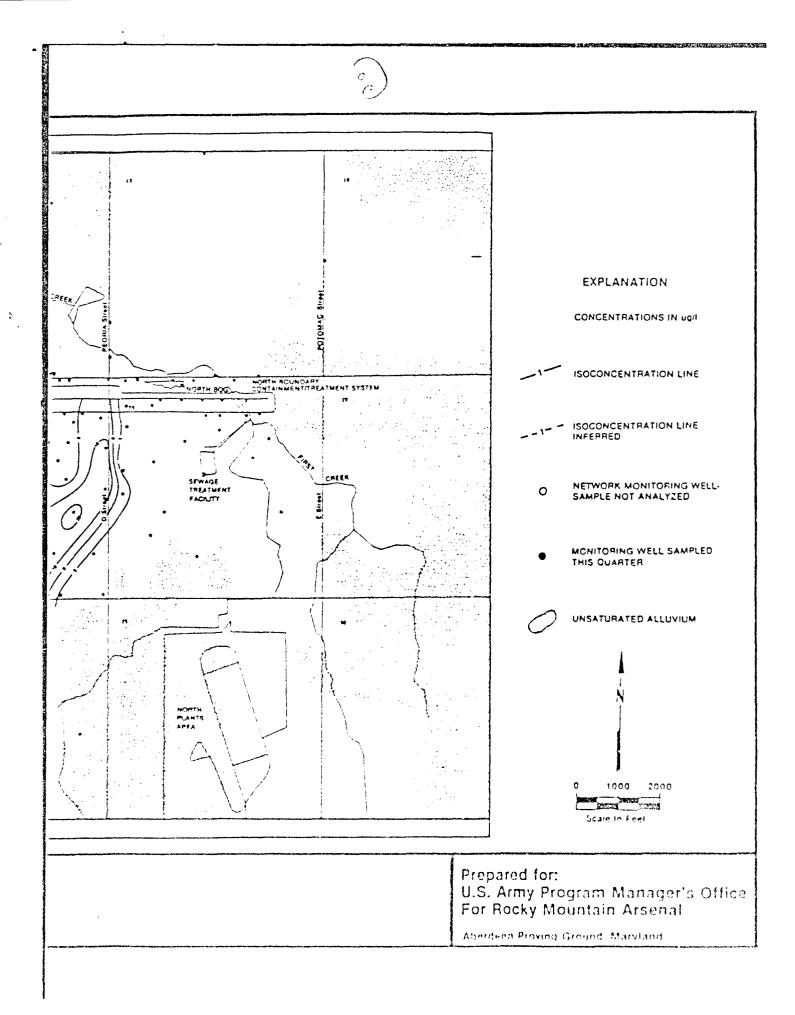


Figure 8-73 8
1,4-OXATHIANE CONCENTRATION DISTRIBUTION,ug/I
2ND QUARTER, FY87, ALLUVIAL AQUIFER

HOTHICE TOE 1189



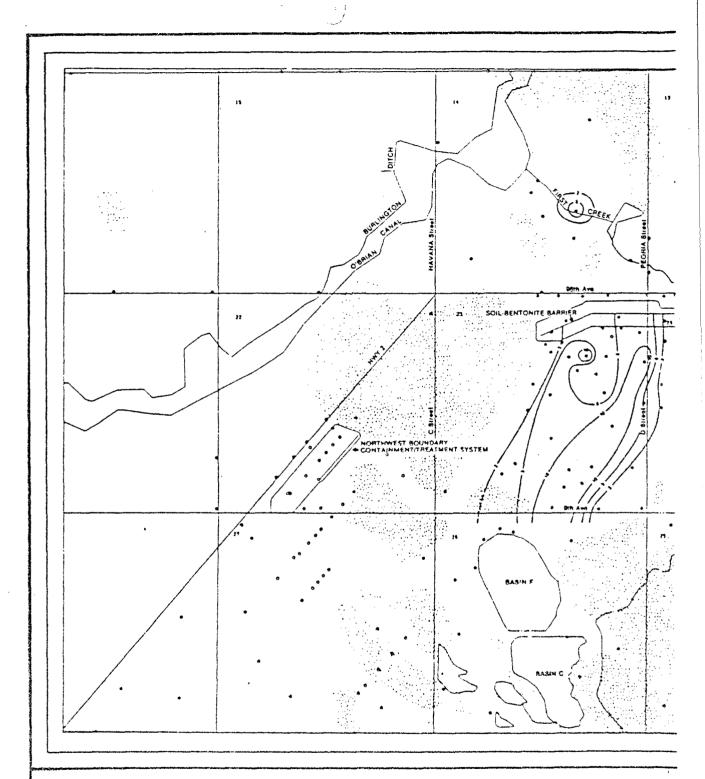
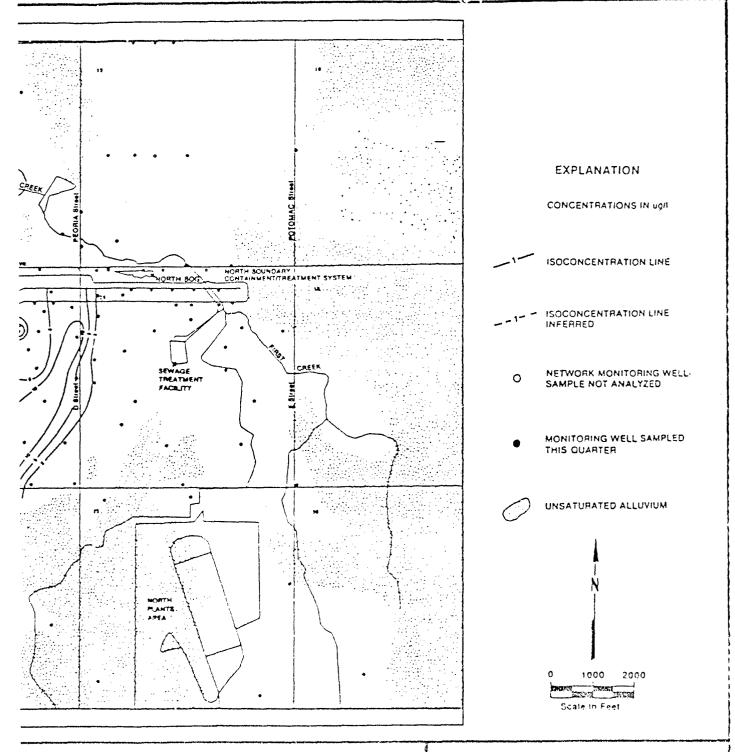


Figure B-73 C 1,4-OXATHIANE CONCENTRATION DISTRIBUTION,ug/I 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988





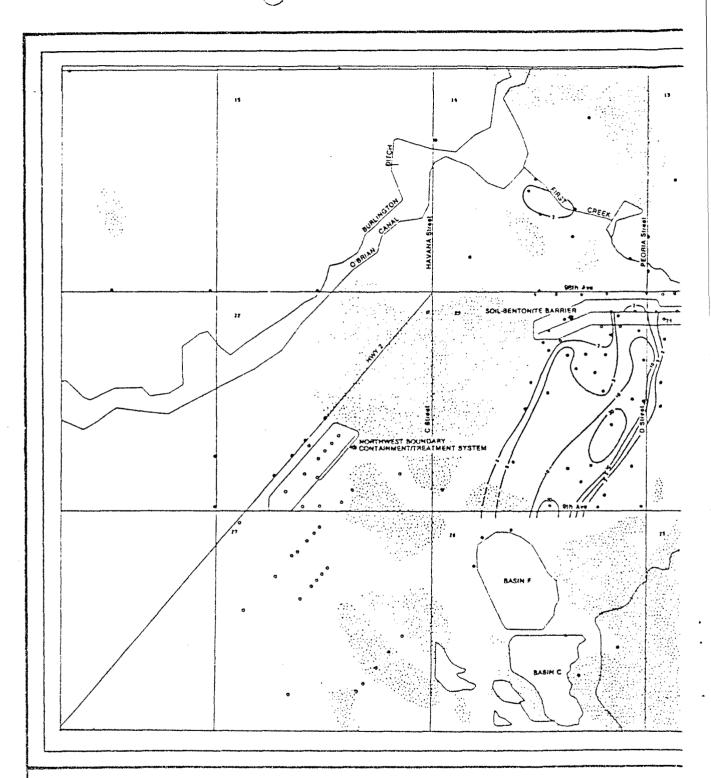
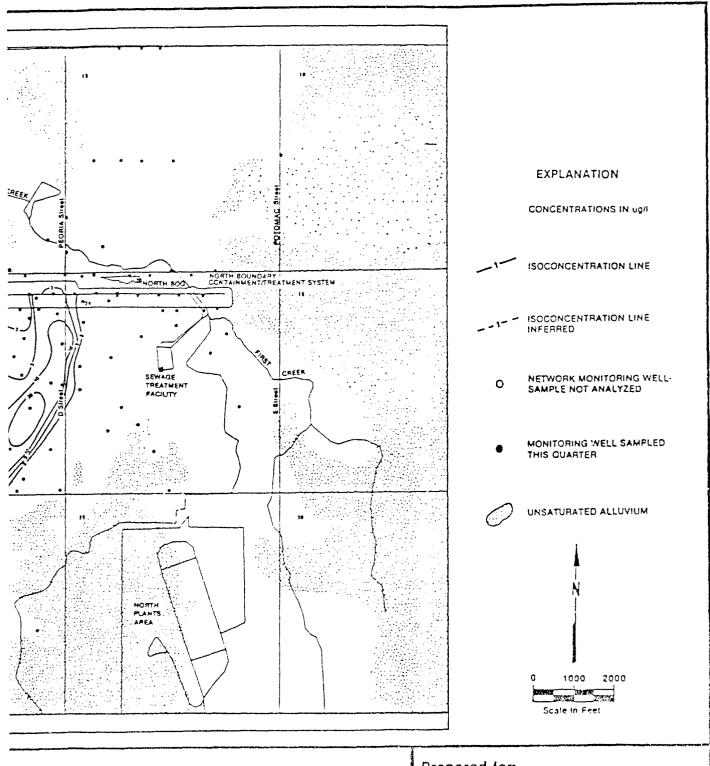


Figure B-73D 1,4-OXATHIANE CONCENTRATION DISTRIBUTION,ug/I 4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988





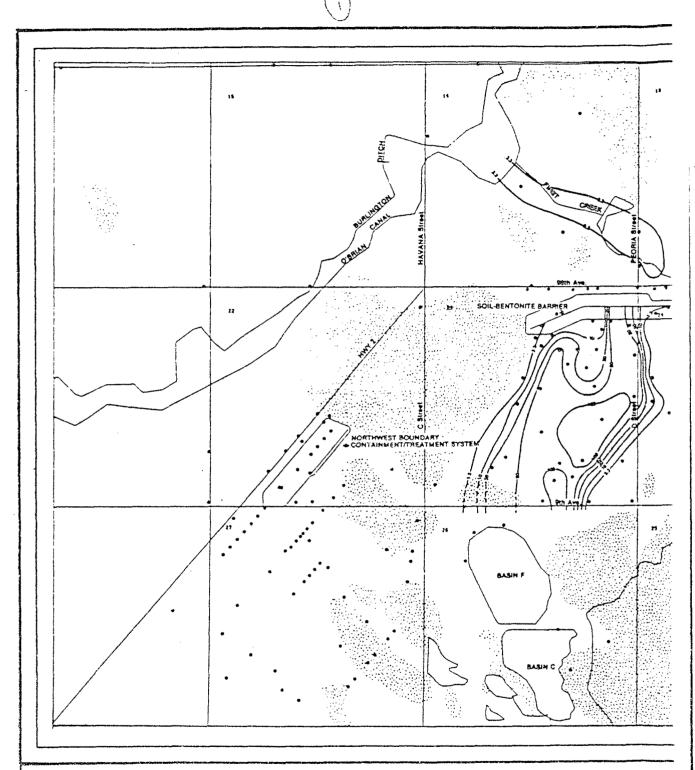
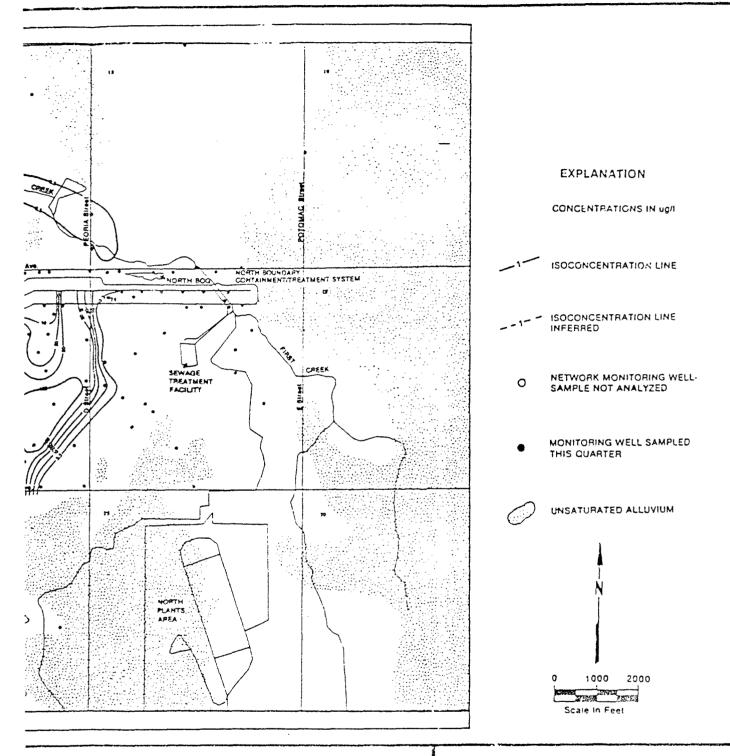


Figure B-74A 1,4-DITHIANE CONCENTRATION DISTRIBUTION, ug/l, 1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE.ESE,1988





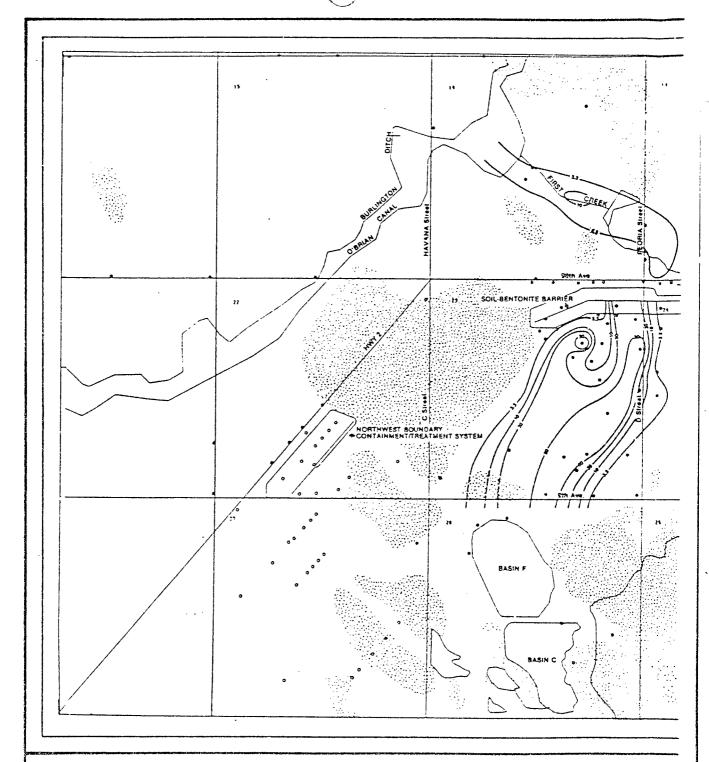
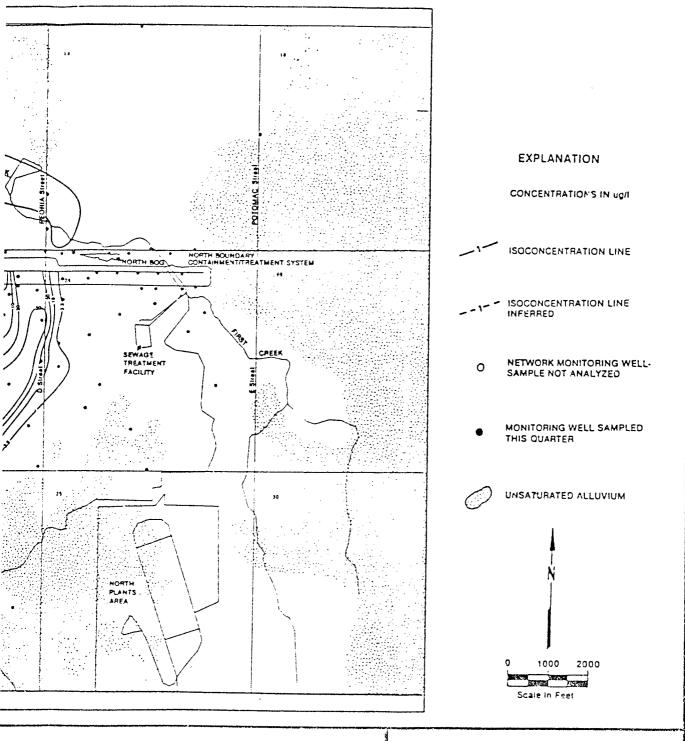


Figure B-74 B 1;4-DITHIANE CONCENTRATION DISTRIBUTION, ug/l, 2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE:ESE,1988





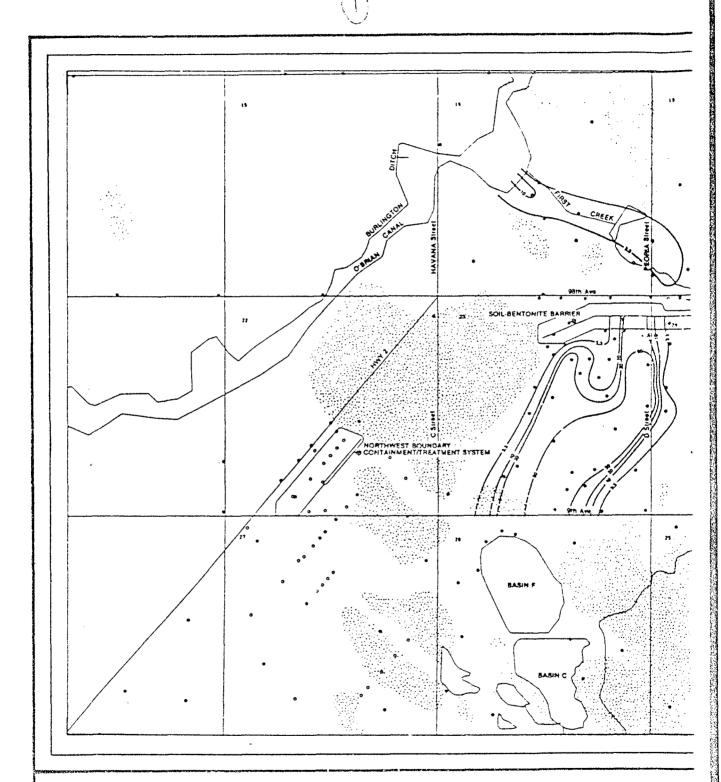


Figure 8-74C 1,4-DITHIANE CONCENTRATION DISTRIBUTION, ug/l, 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE.ESE, 1988

**EXPLANATION** CONCENTRATIONS IN Ug/I ISOCONCENTRATION LINE HOATH BOOK ISOCONCENTRATION LINE INFERRED NETWORK MONITORING WELL-SAMPLE NOT ANALYZED MONITORING WELL SAMPLED THIS QUARTER MUNICULAR CETARUTARU 2000 Scale in Feet

> Prepared for: U.S. Army Program Manager's Office For Rocky Mountain Arsenal

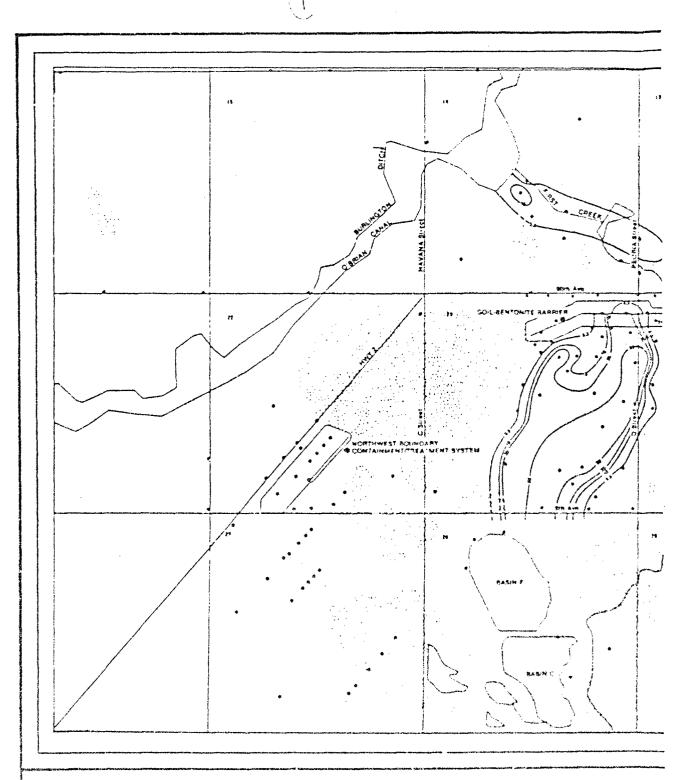
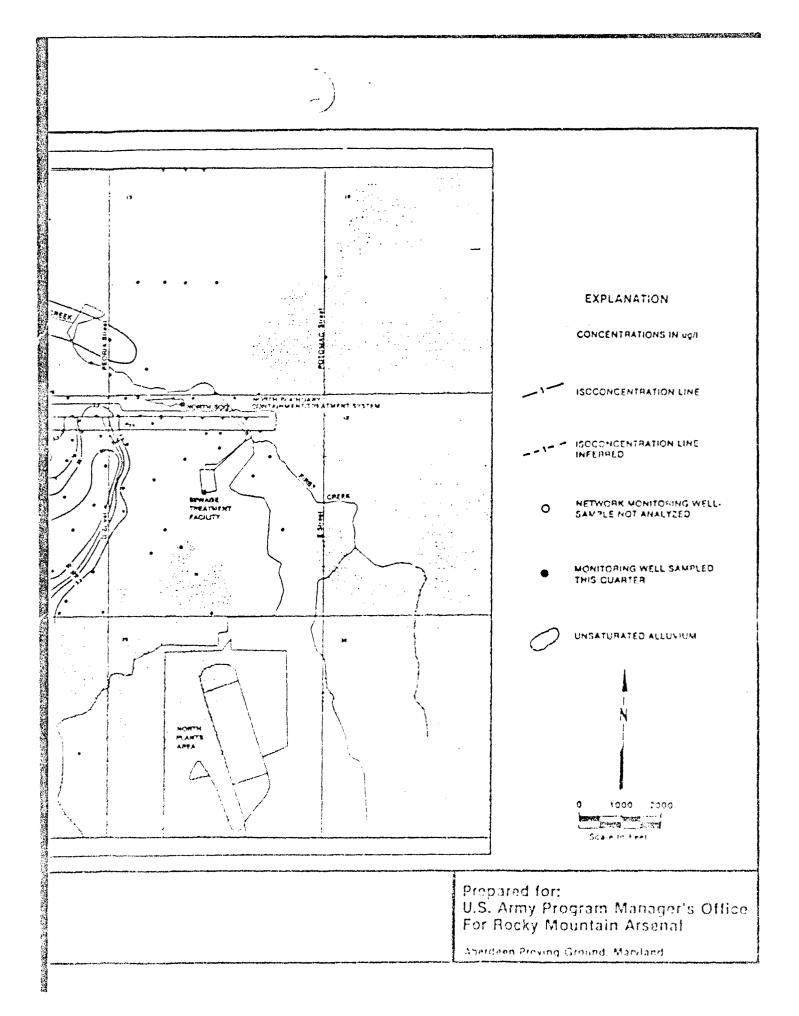


Figure 8-740
1,4-DITHIANE CONCENTRATION DISTRIBUTION, ug/l,
4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988



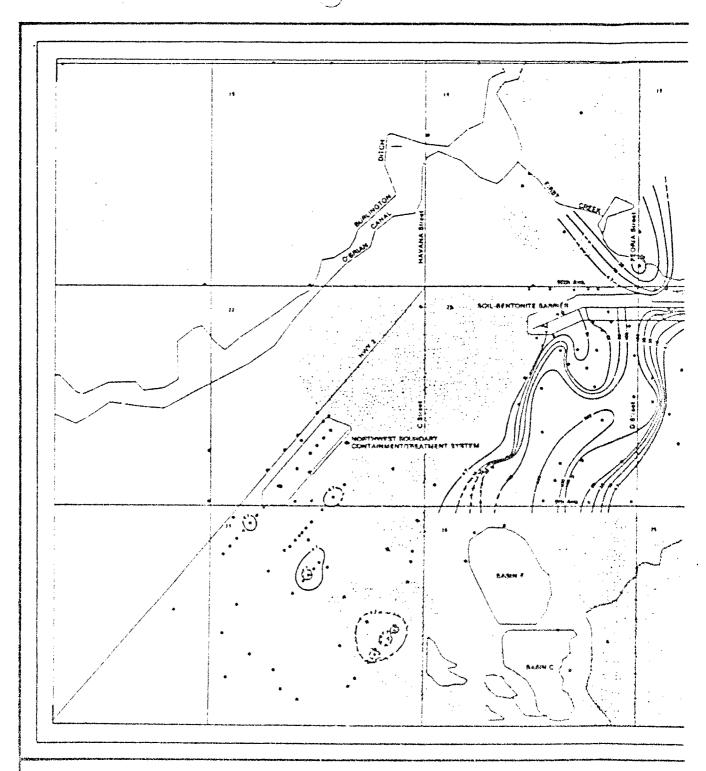
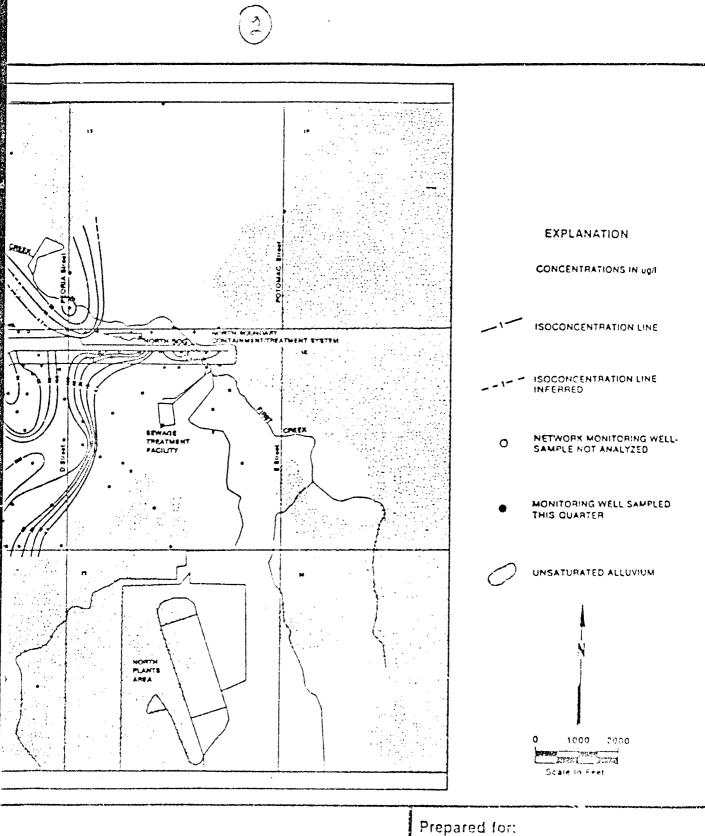


Figure B-75A COMBINED ORGANOSULFURS CONCENTRATION DISTRIBUTION, ug/l, 1ST QUARTER, FY87, ALLUVIAL AQUIFER

500000 555 1308



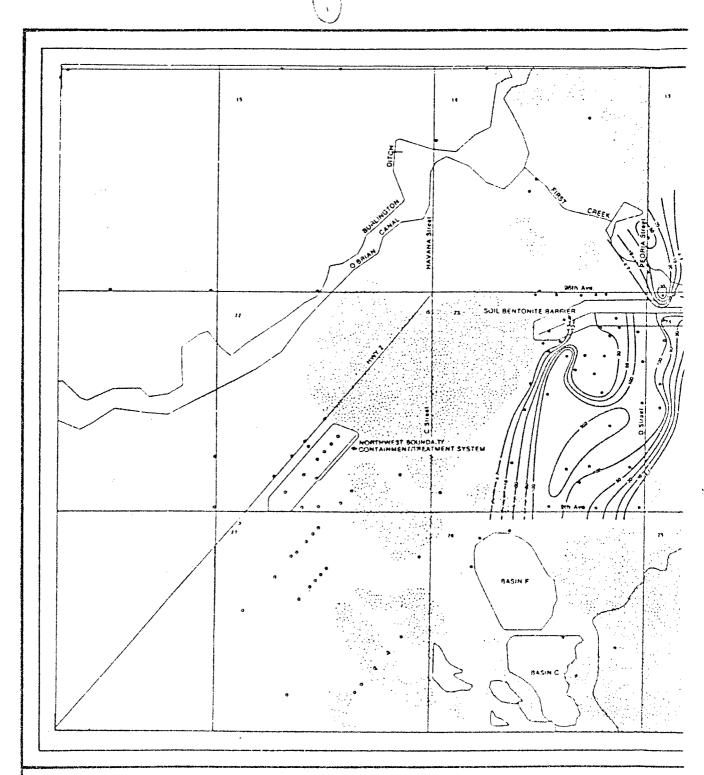
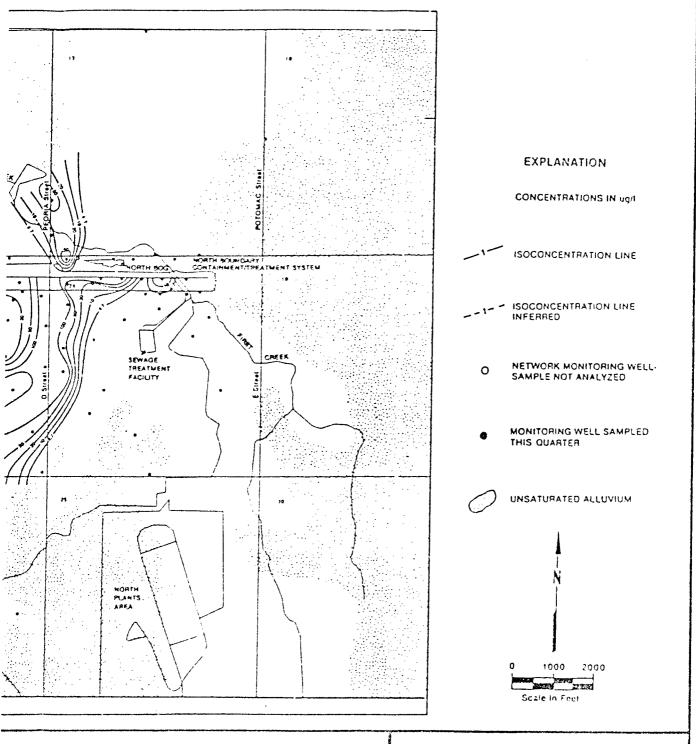


Figure 8-75 8
COMBINED ORGANOSULFURS CONCENTRATION DISTRIBUTION, ug/l, 2ND QUARTER, FY87. ALLUVIAL AQUIFER

SOURCE ESE, 1988





Aberdeen Proving Ground, Maryland

.....

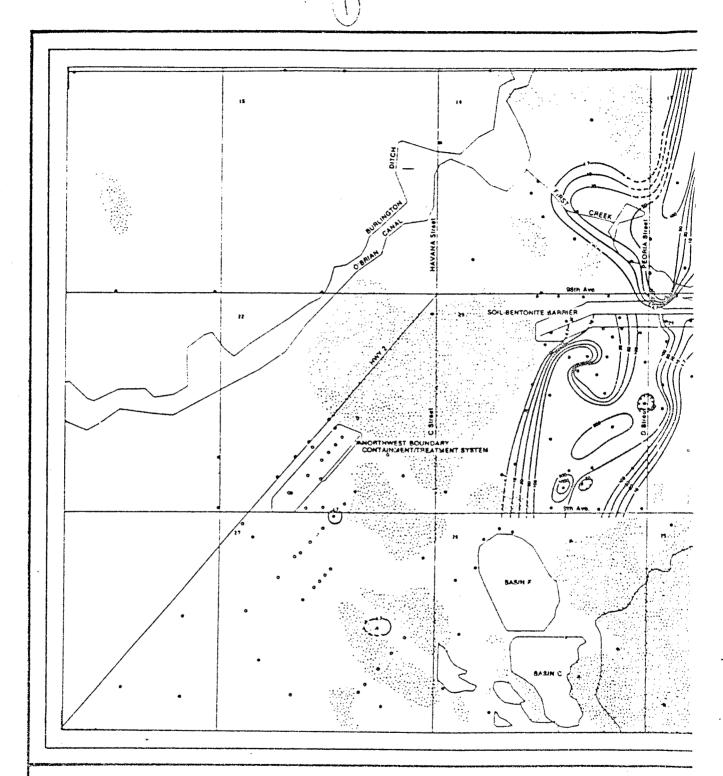
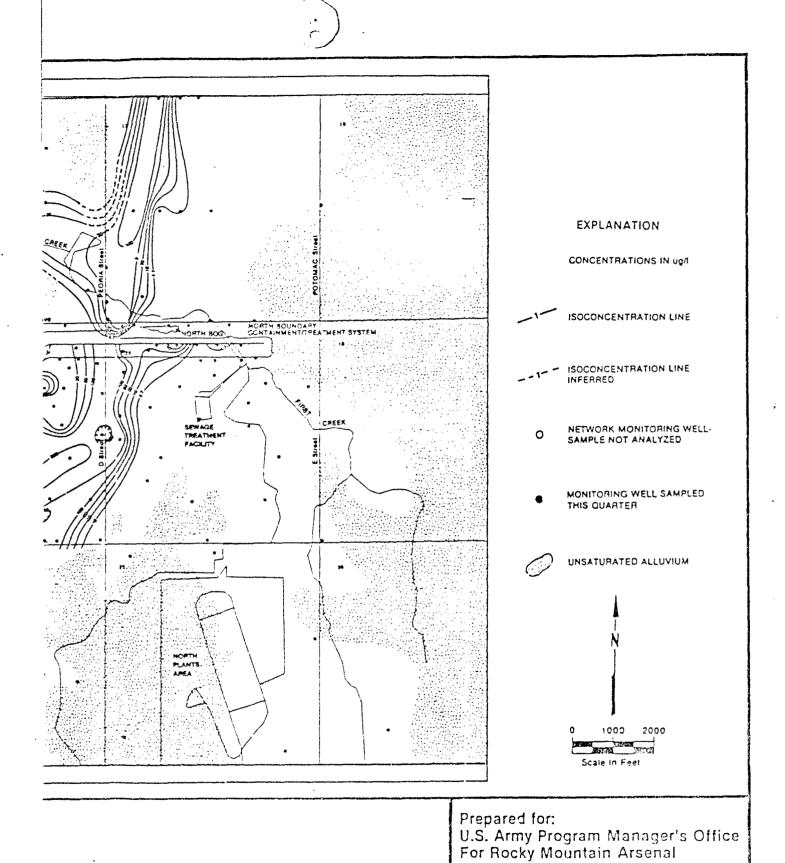


Figure 8-75C COMBINED ORGANOSULFURS CONCENTRATION DISTRIBUTION, ug/l, 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988





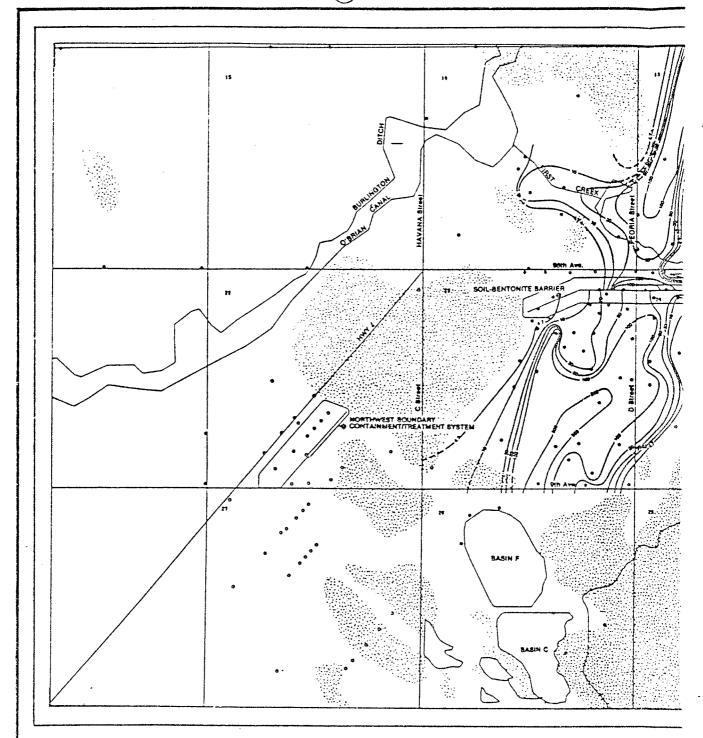
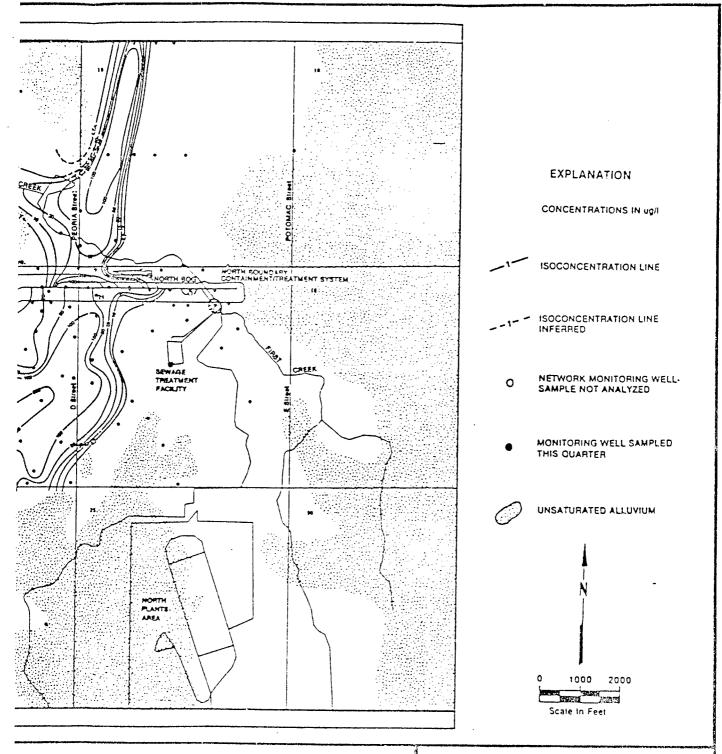


Figure B-75D COMBINED ORGANOSULFURS CONCENTRATION DISTRIBUTION, ug/l, 4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE.ESE, 1988



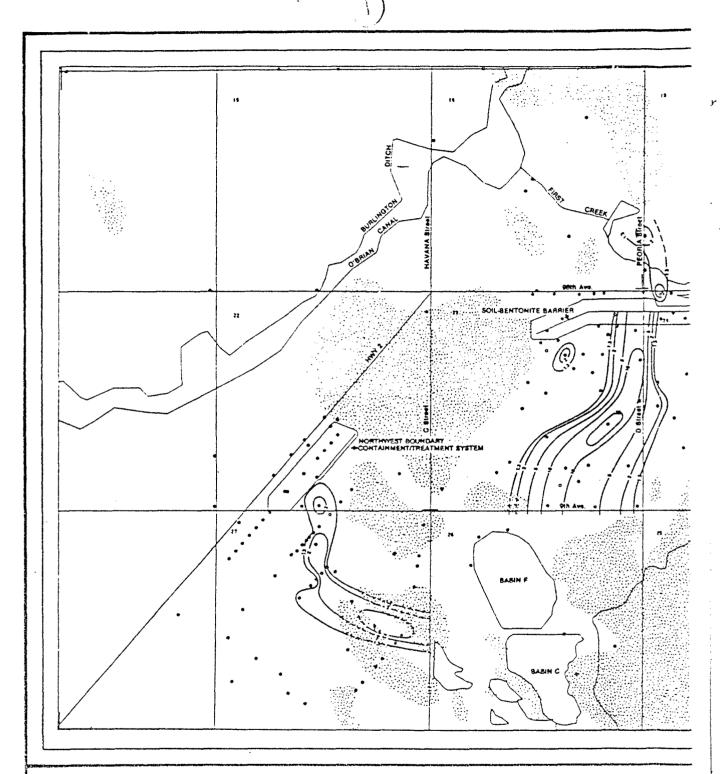
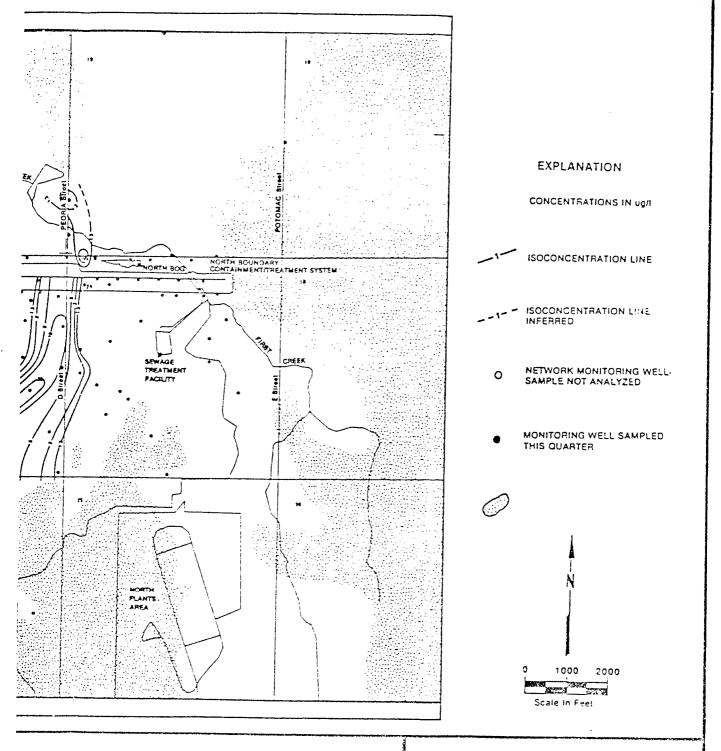


Figure B-76A
TRICHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l,
1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE:ESE,1988





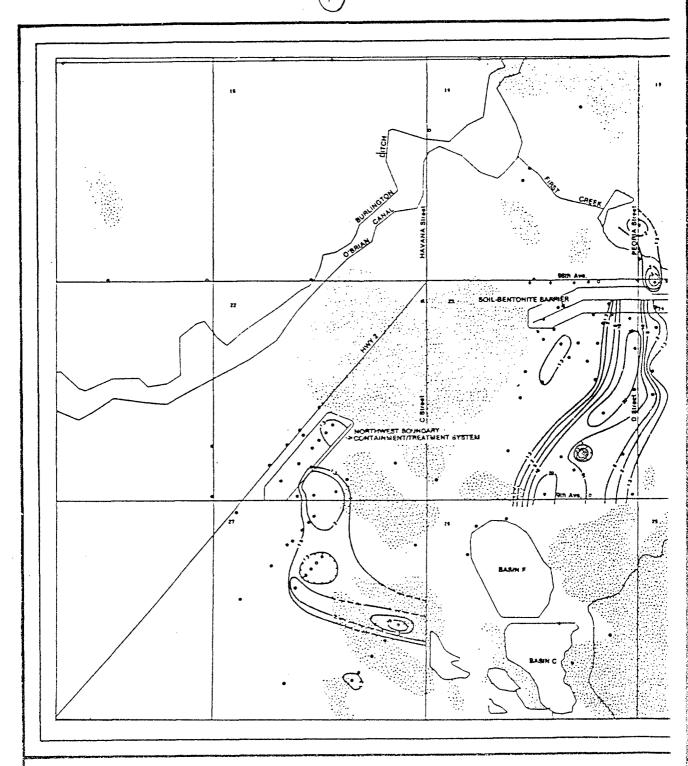
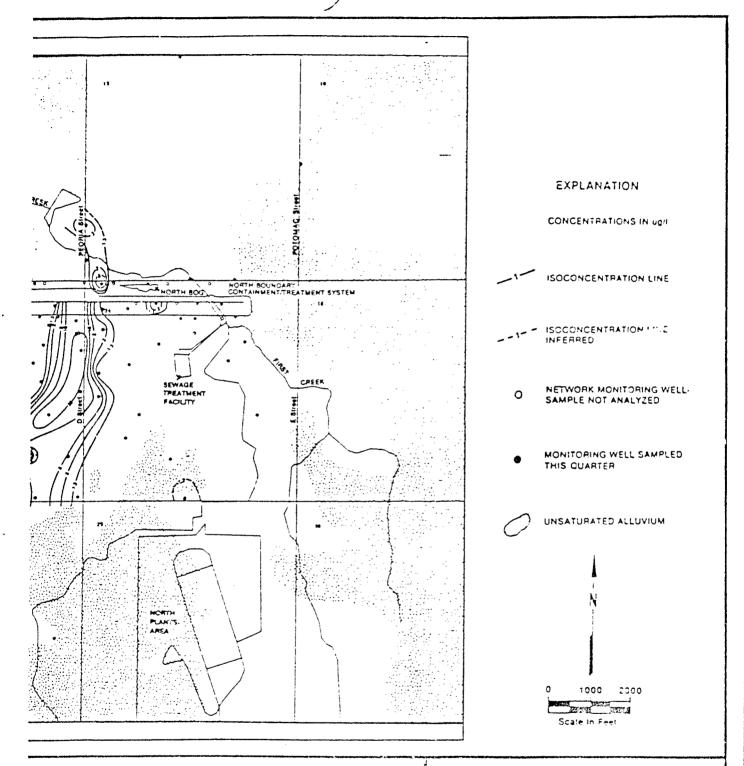


Figure B-76B
TRICHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l, 2ND QUARTER, FY87, ALLUVIAL AQUIFER



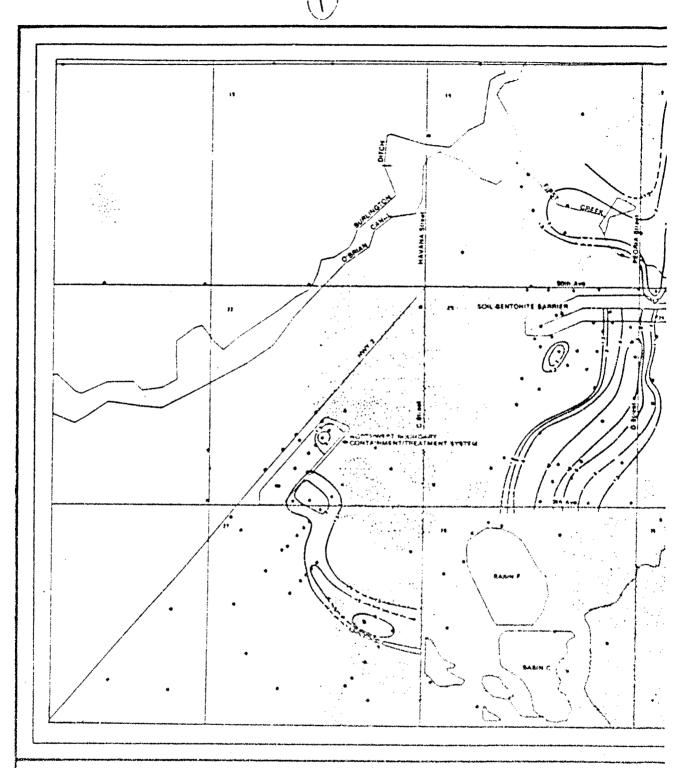
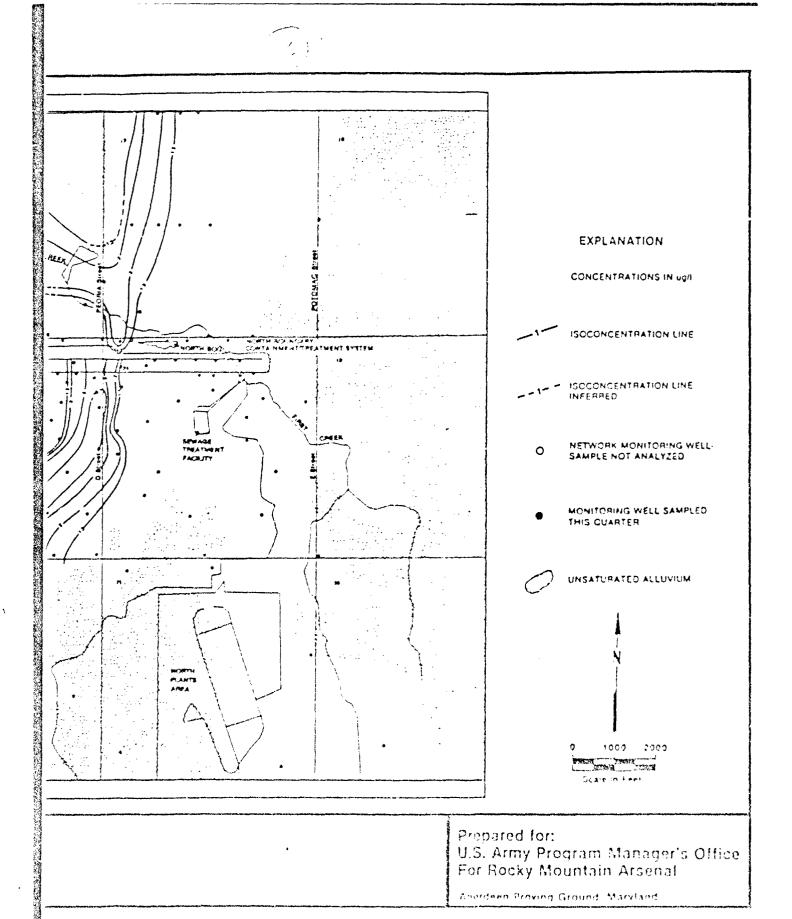


Figure 8-75 C
TRICHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l, 3RD QUARTER, FY87, ALLUVIAL AQUIFER

NOUPCE ESE, 1988



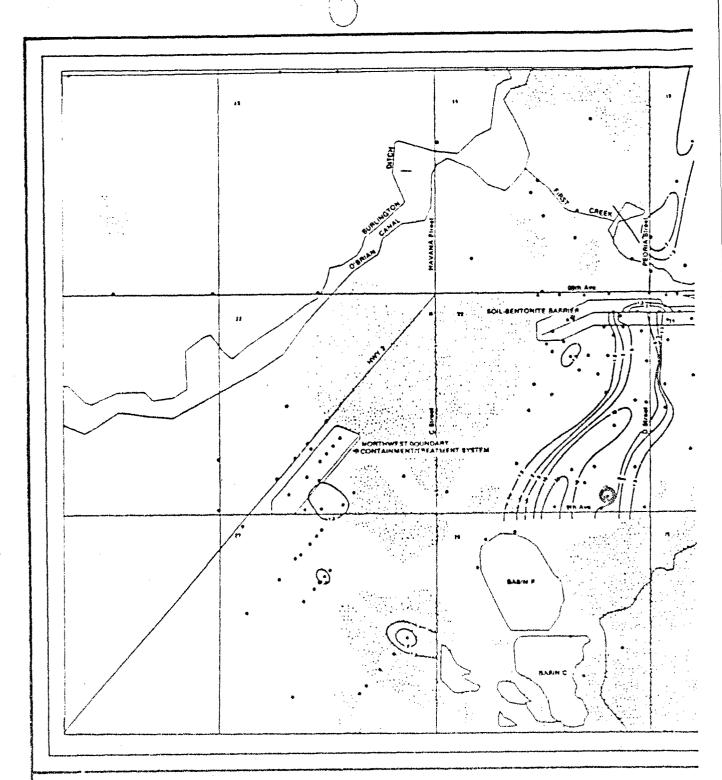
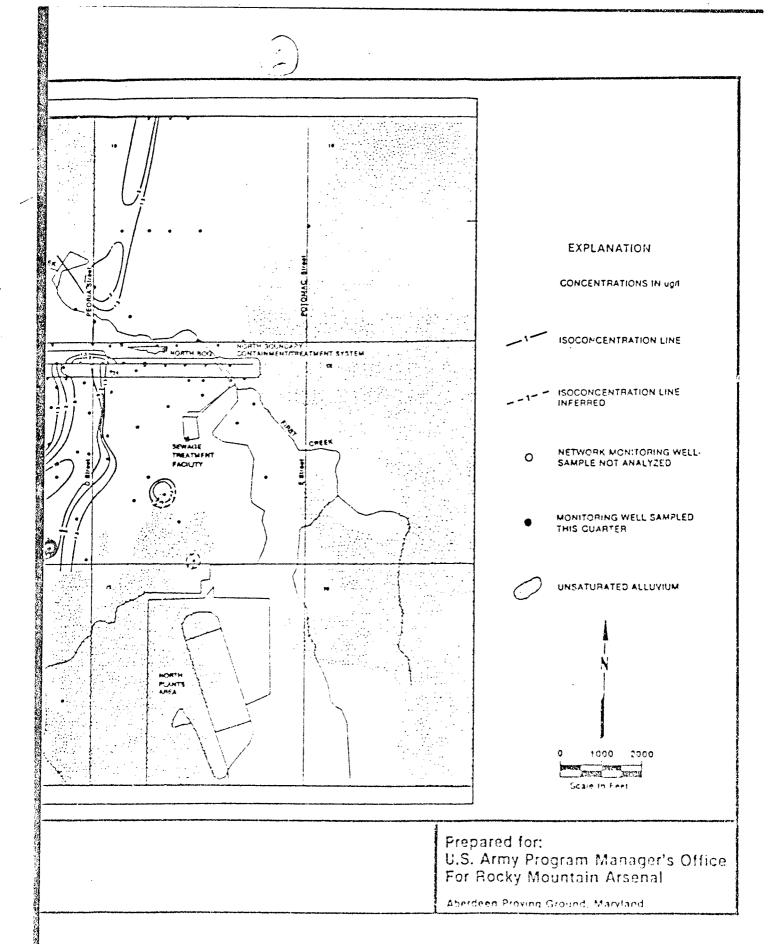


Figure B-76 D
TRICHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l,
4TH QUARTER, FY87, ALLUVIAL AQUIFER



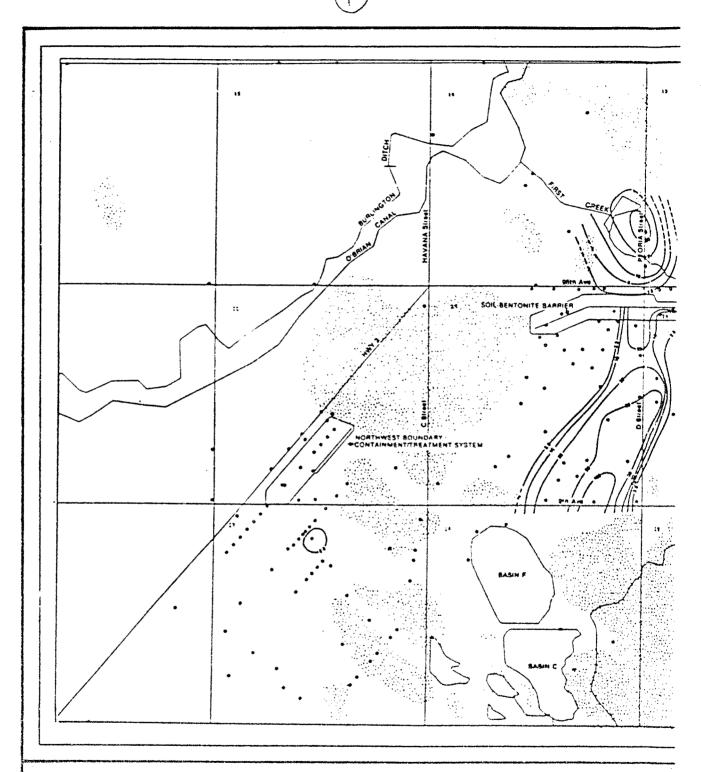
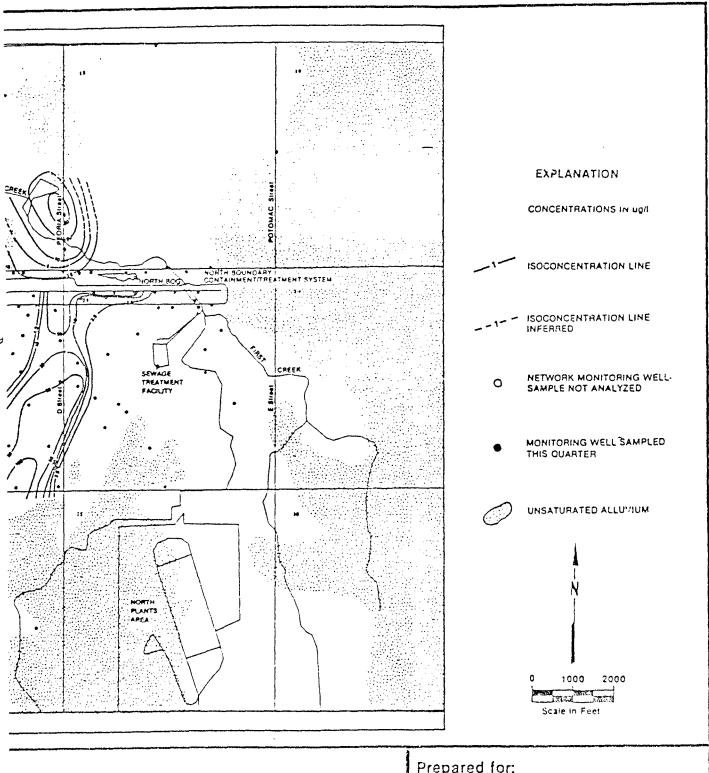


Figure 8-77A
TETRACHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l,
1ST QUARTER, FY87, ALLUVIAL AQUIFER

COURCE ESE, 1988





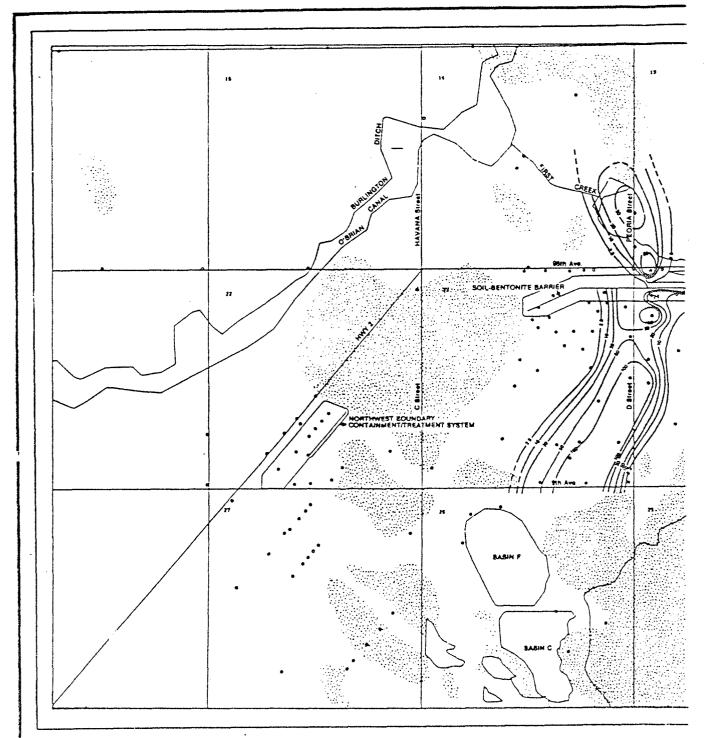
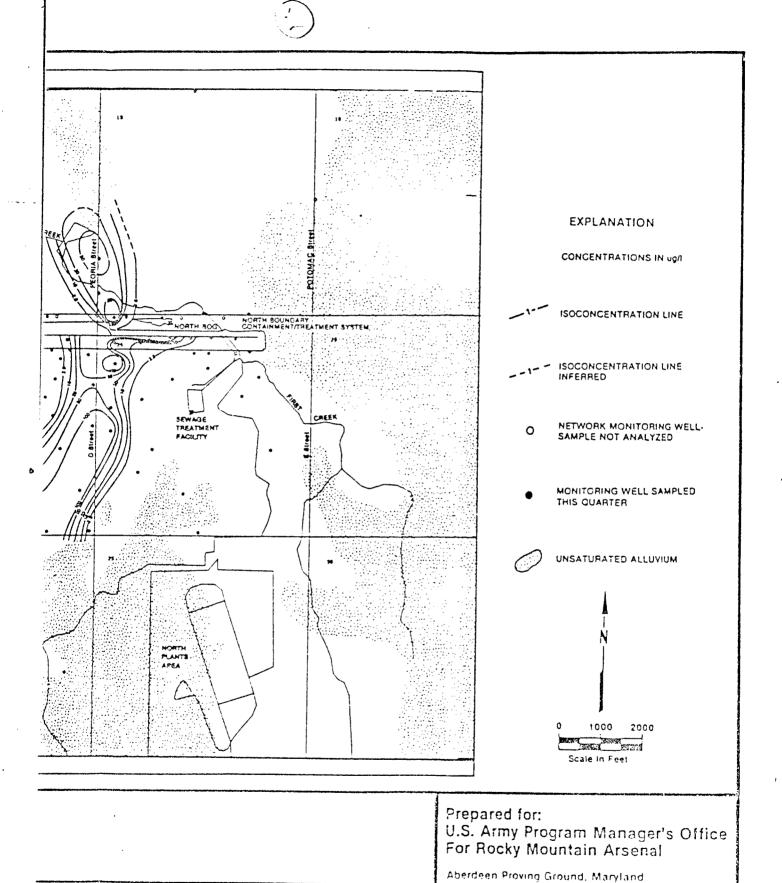


Figure B-77B TETRACHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l, 2ND QUARTER, FY87, ALLUVIAL AQUIFER



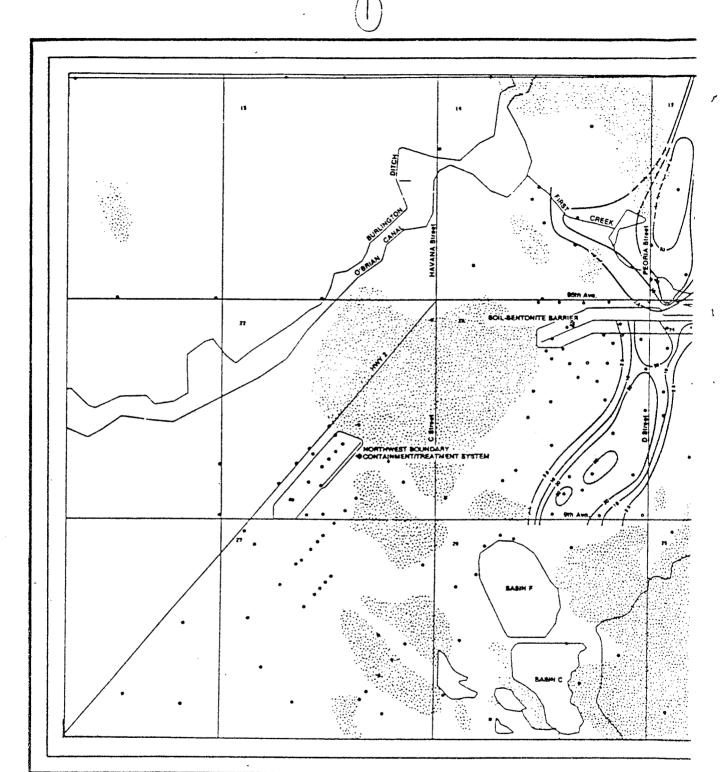
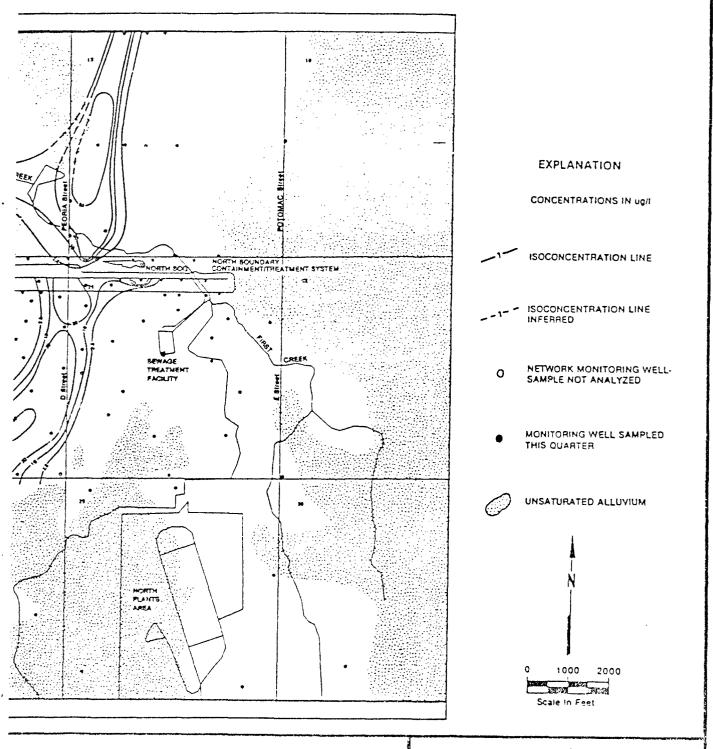


Figure 8-77 C
TETRACHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l, 3RD QUARTER, FY87, ALLUVIAL AQUIFER



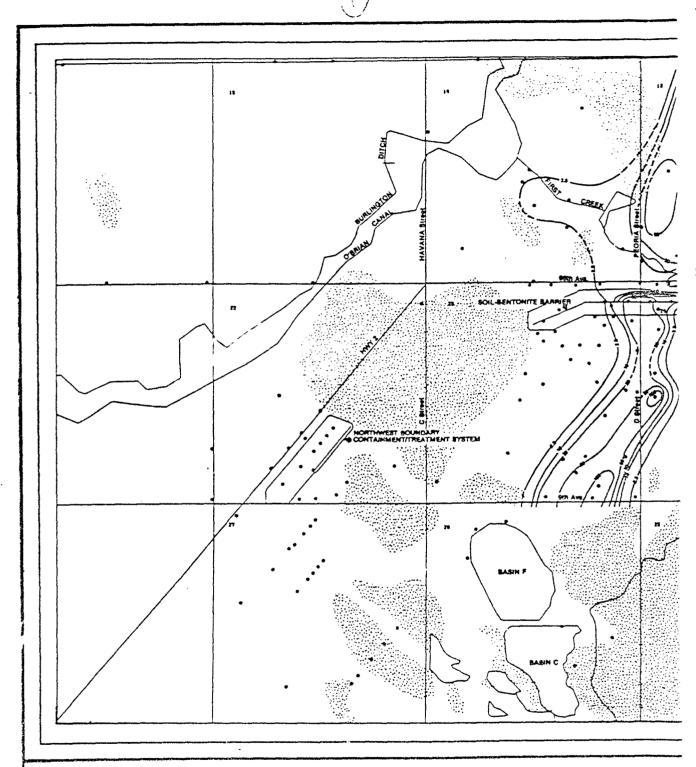
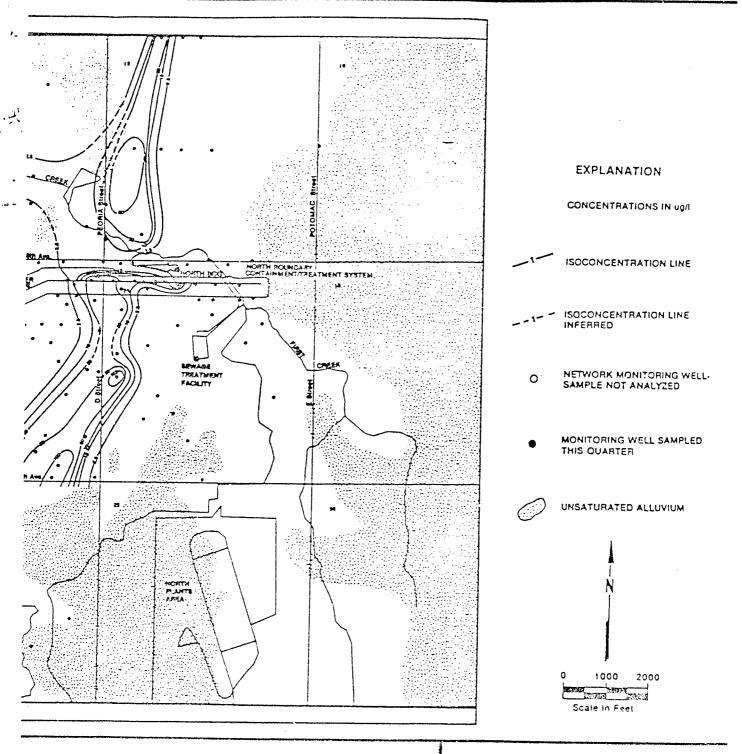


Figure 8-77 D
TETRACHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l,
4TH QUARTER, FY87, ALLUVIAL AQUIFER





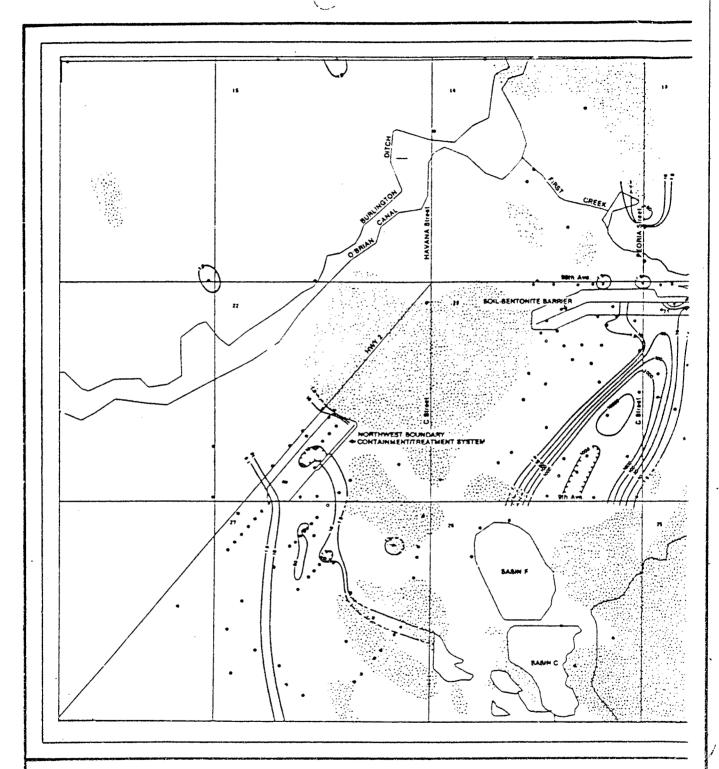
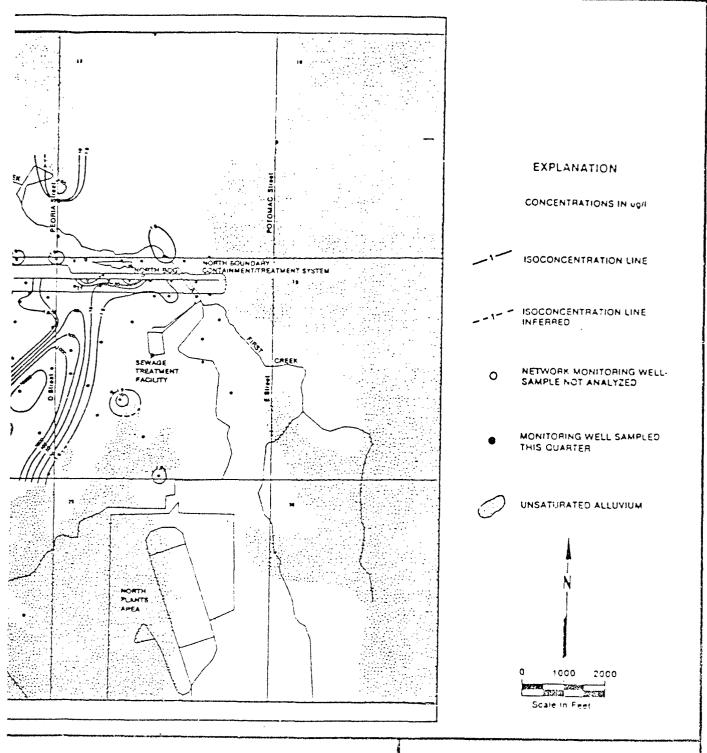


Figure B-78A CHLOROFORM CONCENTRATION DISTRIBUTION, ug/l, 1ST QUARTER, FY87, ALLUVIAL AQUIFER





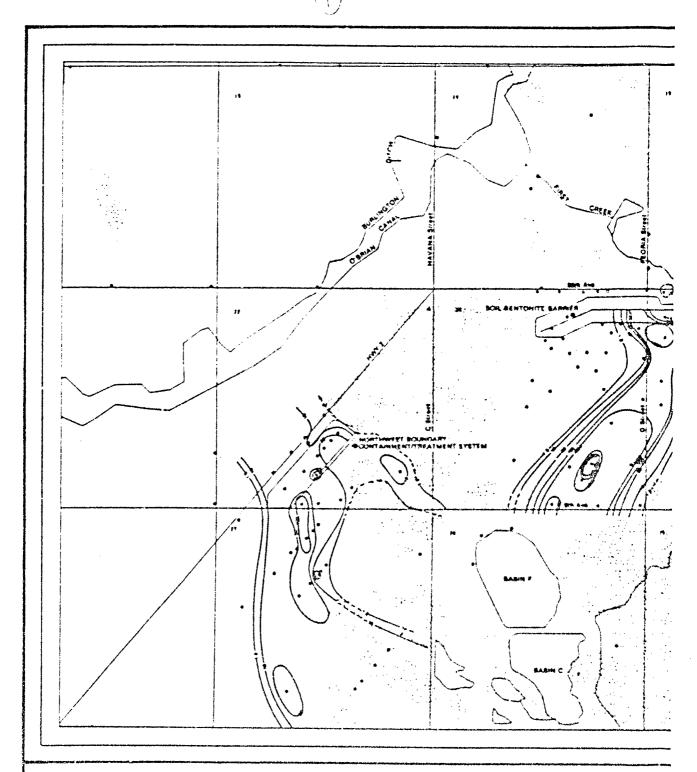
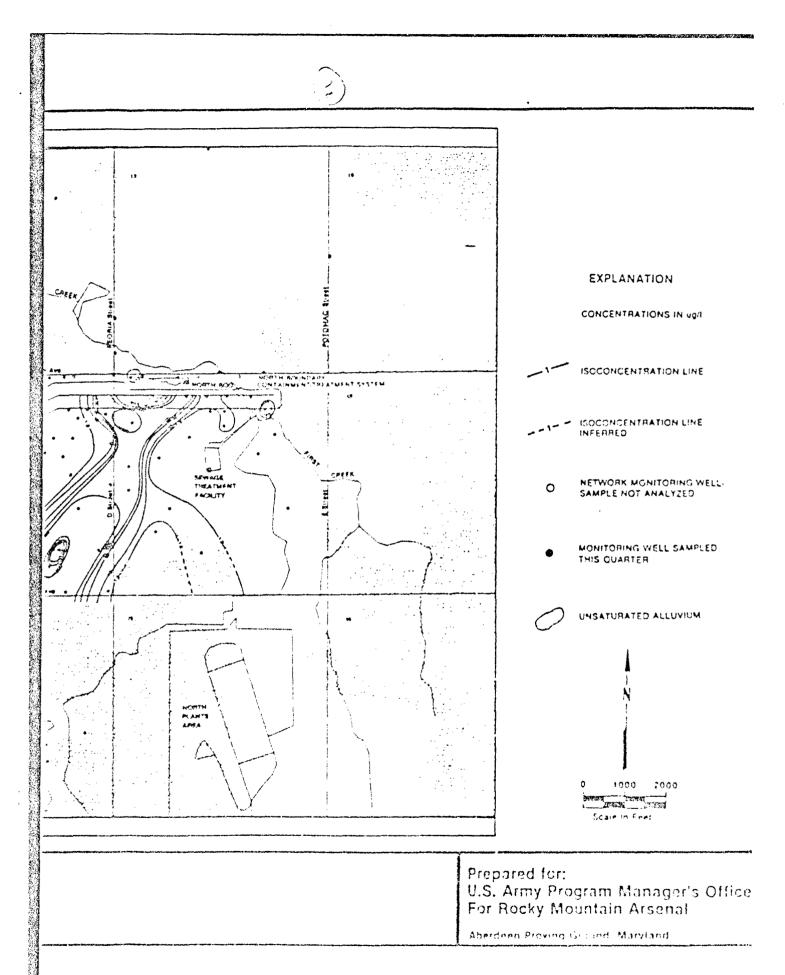


Figure B-78B CHLOROFORM CONCENTRATION DISTRIBUTION, ug/l, 2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE 1995



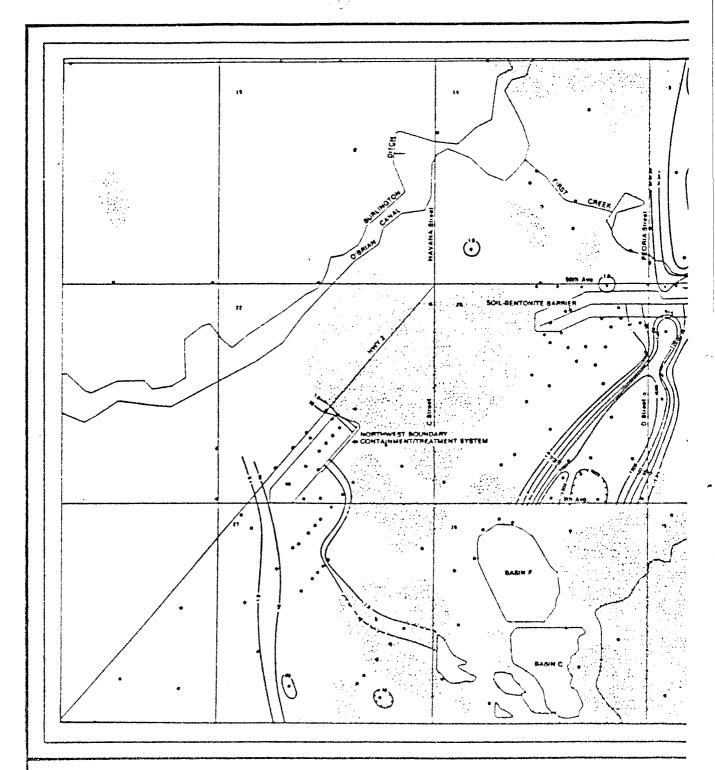
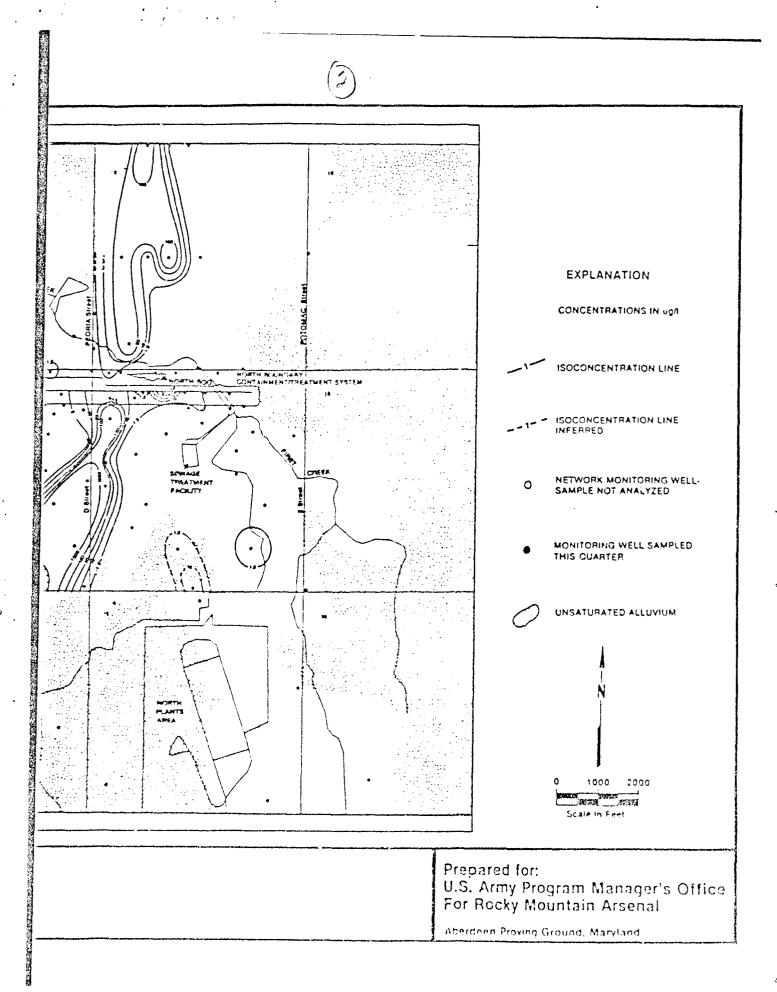


Figure B-78C CHLOROFORM CONCENTRATION DISTRIBUTION, ug/l, 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOUPCE ESE, 1988



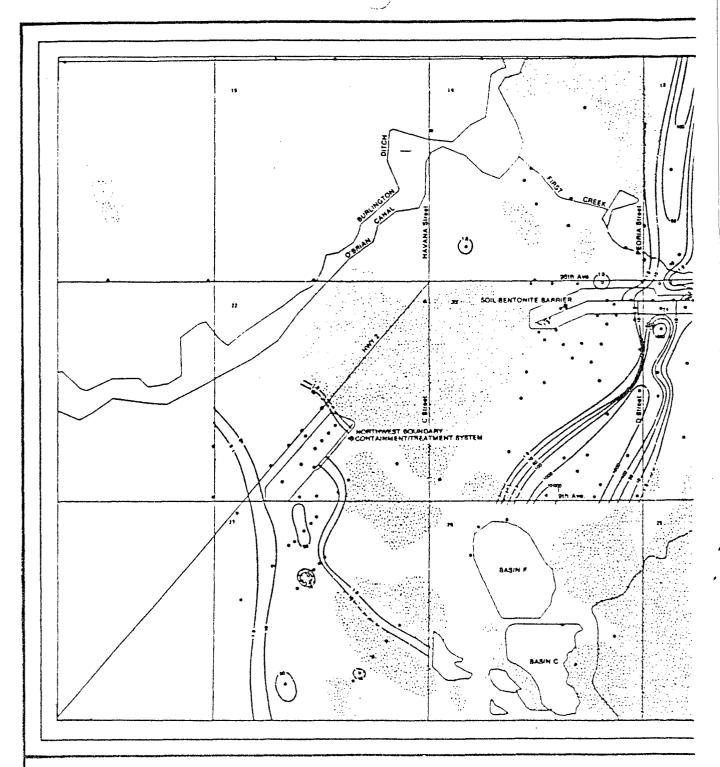
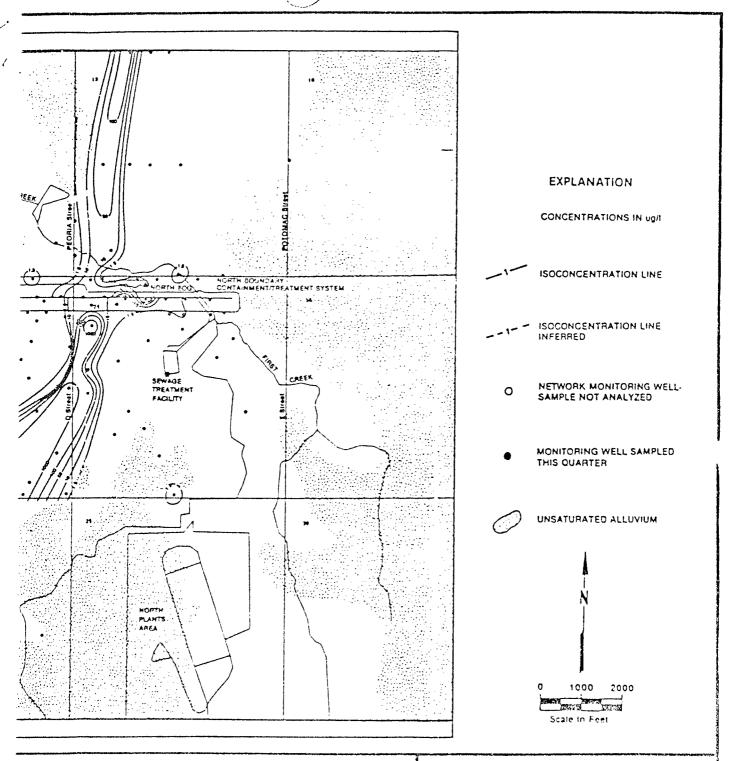


Figure B-78D CHLOROFORM CONCENTRATION DISTRIBUTION, ug/l, 4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE 1988





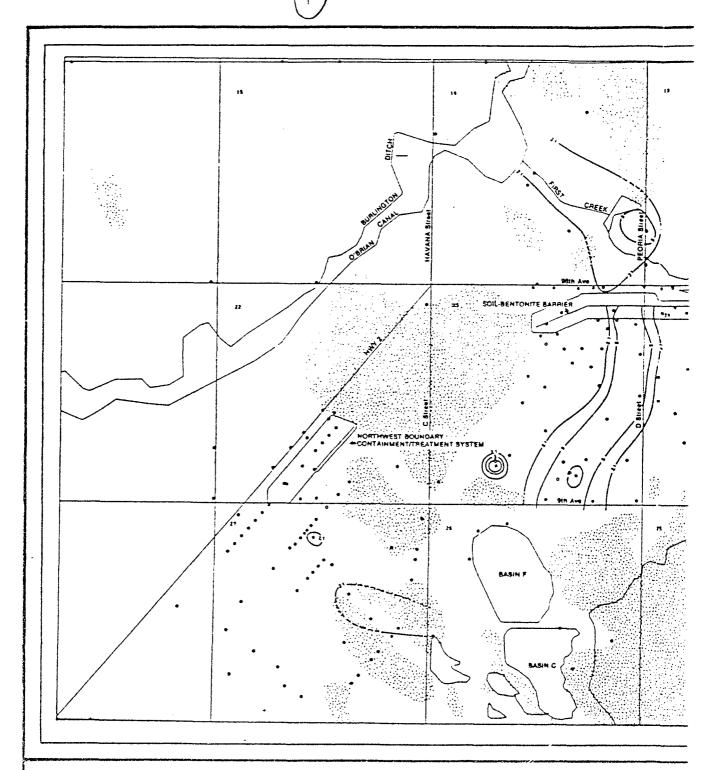
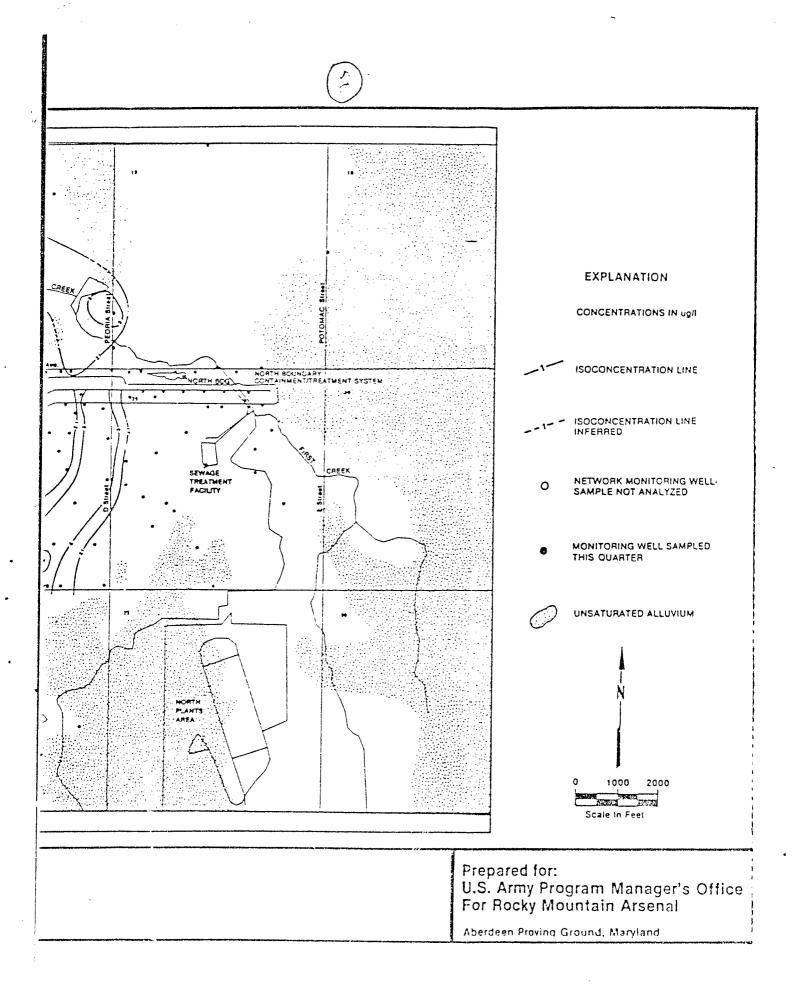


Figure B-79A 1,2-DICHLOROETHANE CONCENTRATION DISTRIBUTION, ug/l, 1ST QUARTER, FY87, ALLUVIAL AQUIFER





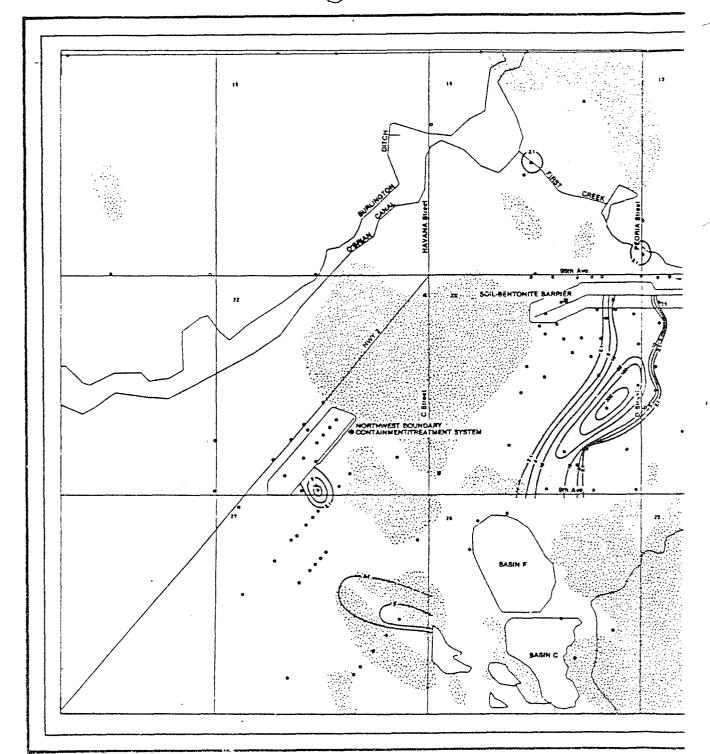
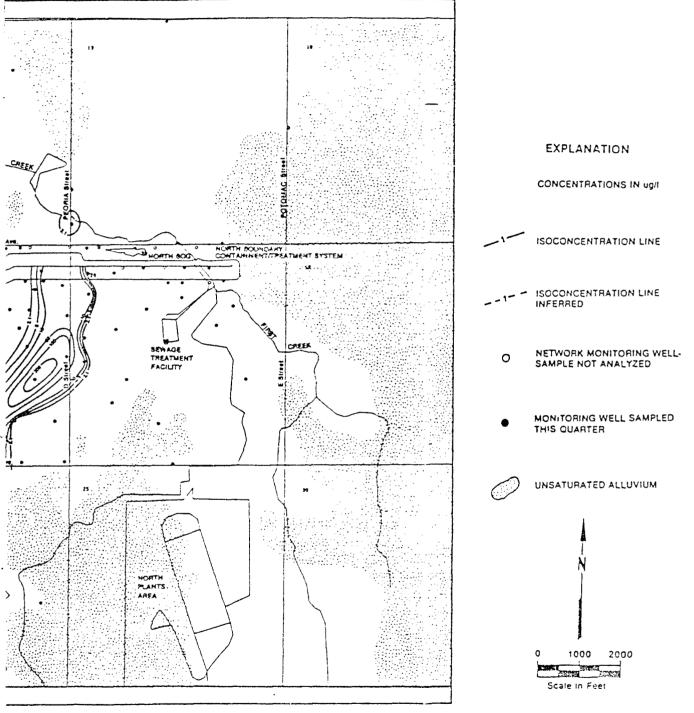


Figure 8-798 1,2-DICHLOROETHANE CONCENTRATION DISTRIBUTION, ug/l, 2ND QUARTER, FY87, ALLUVIAL AQUIFER





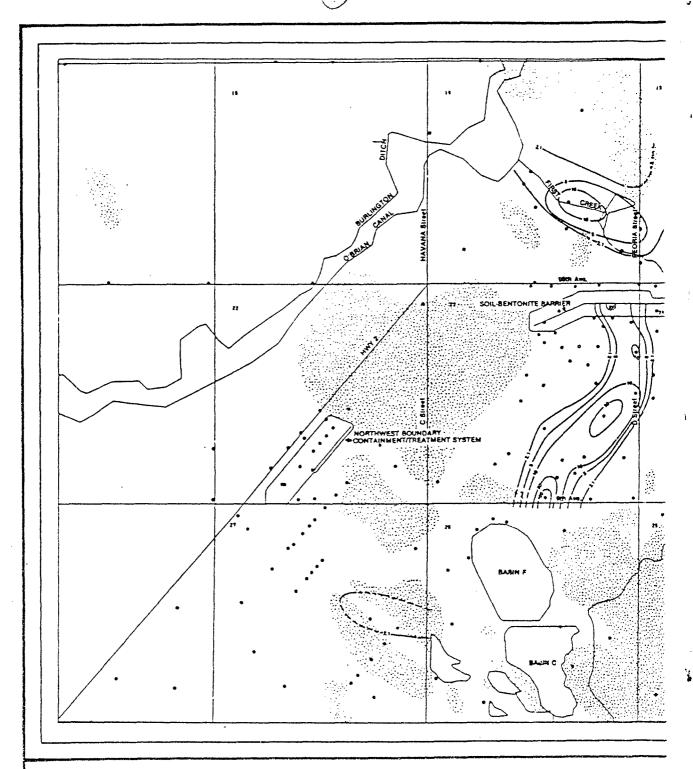
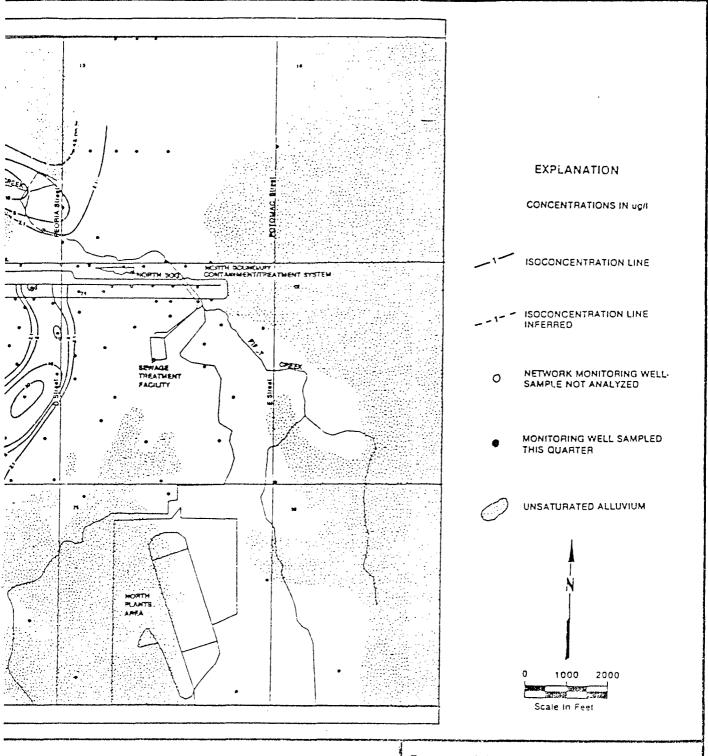


Figure B-79C 1,2-DICHLOROETHANE CONCENTRATION DISTRIBUTION, ug/l, 3RD QUARTER, FY87, ALLUVIAL AQUIFER



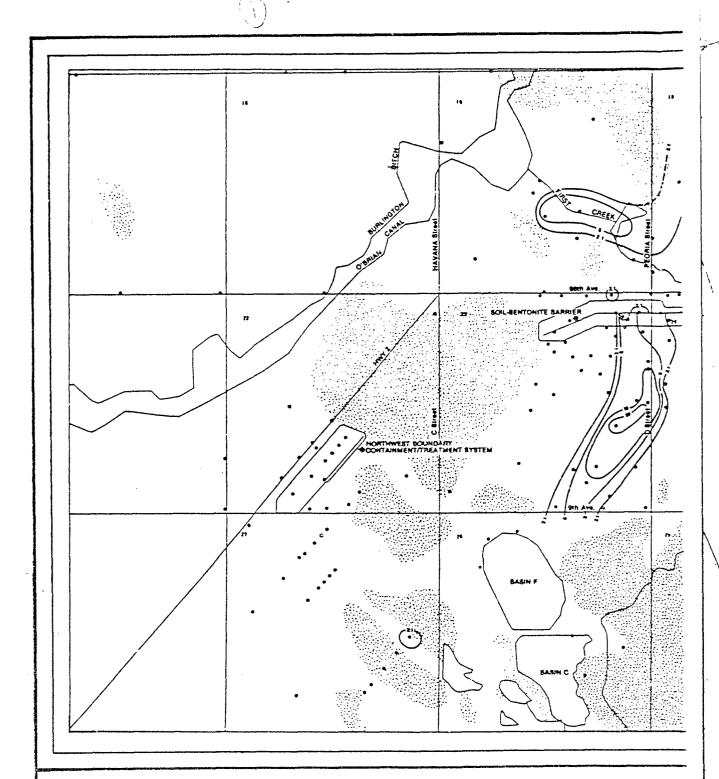
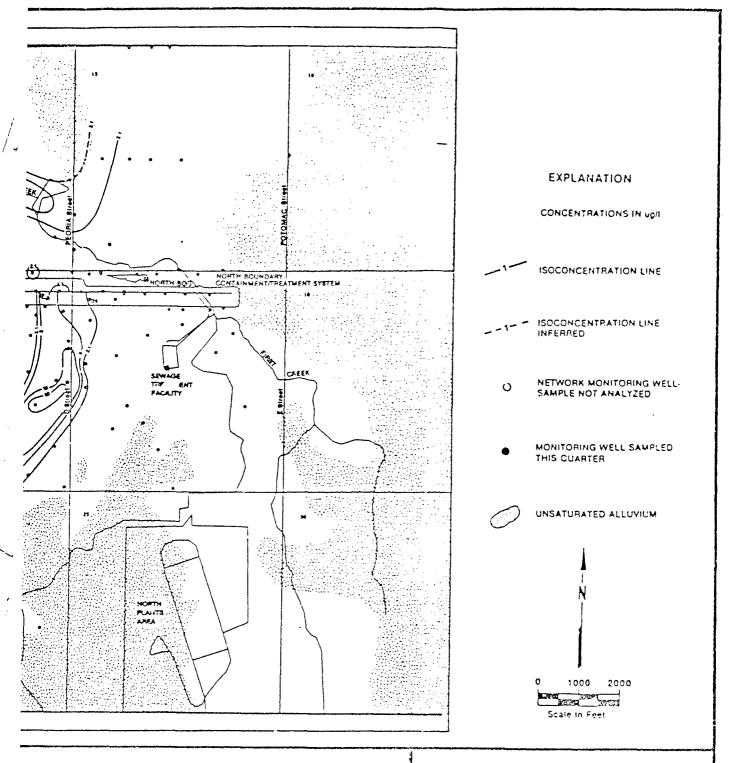


Figure B-79D 1,2-DICHLOROETHANE CONCENTRATION DISTRIBUTION, ug/l, 4TH QUARTER, FY87, ALLUVIAL AQUIFER



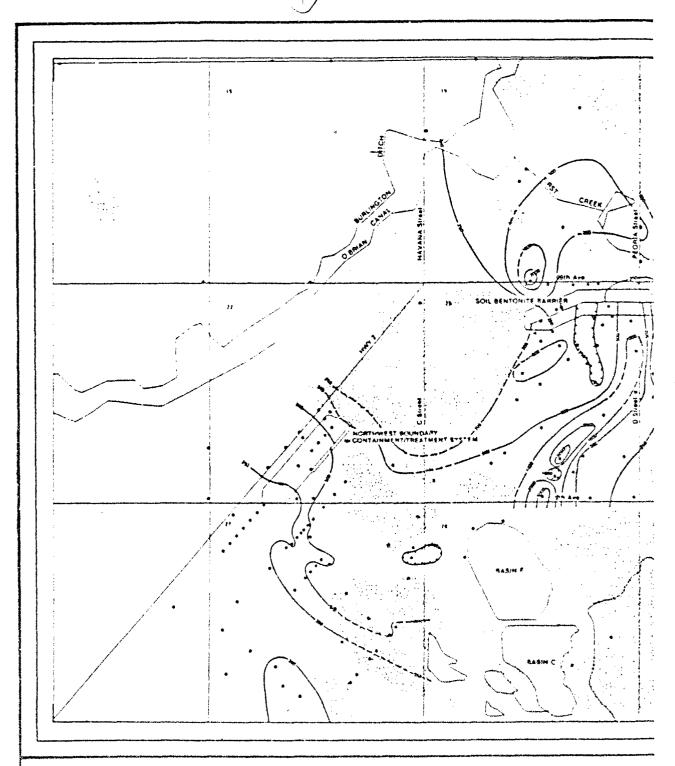
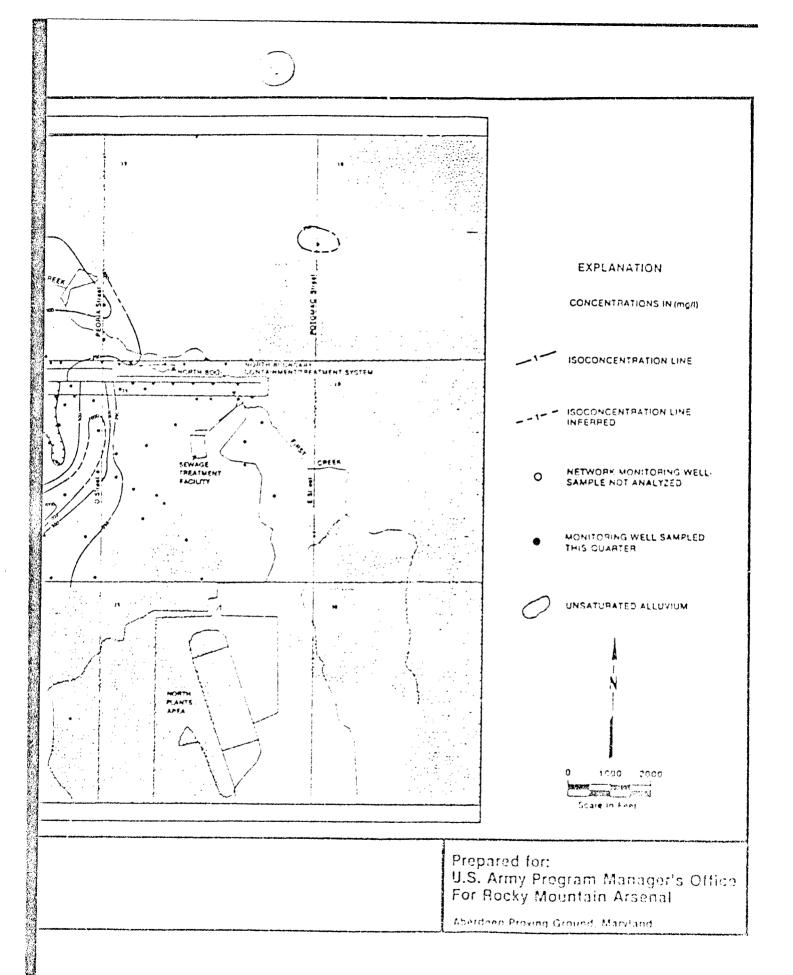


Figure 8-80A
CHLORIDE CONCENTRATION DISTRIBUTION, mg/l,
1ST QUARTER, FY87, ALLUVIAL AQUIFER

DOURCE ESE 1998



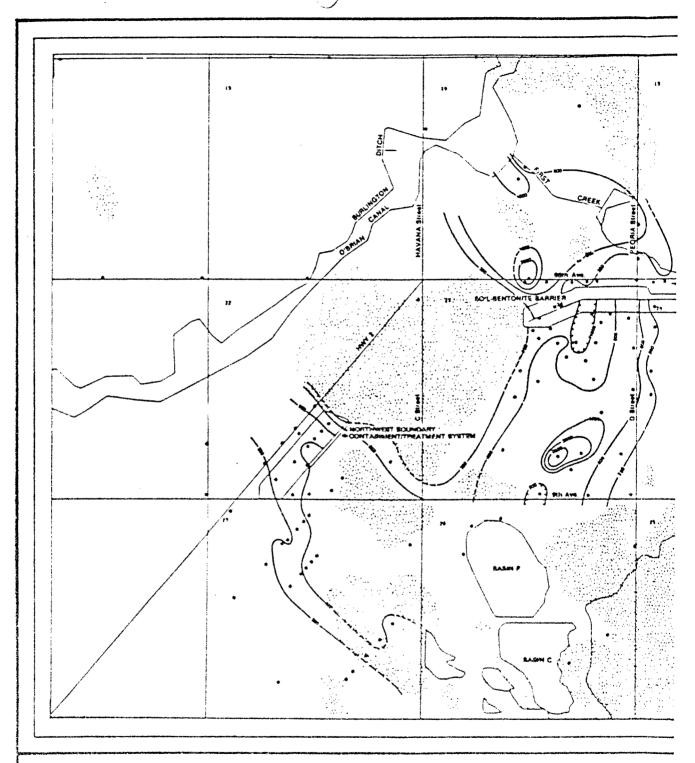
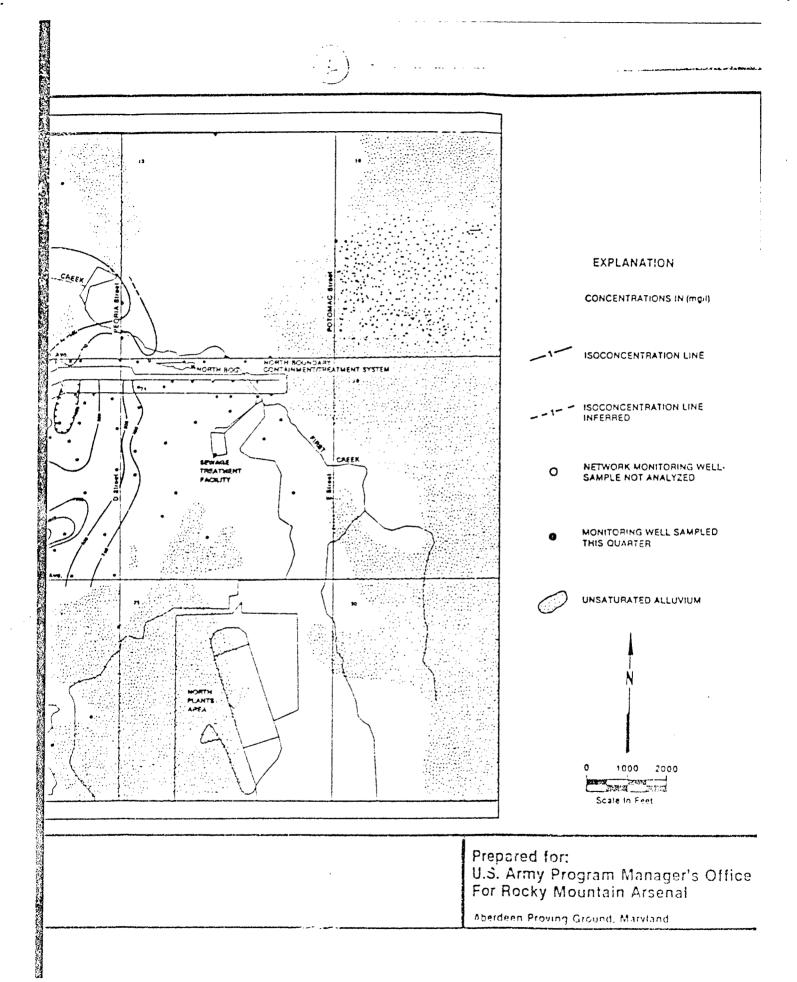


Figure 8-808 CHLORIDE CONCENTRATION DISTRIBUTION, mg/l, 2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE,ESE 1089



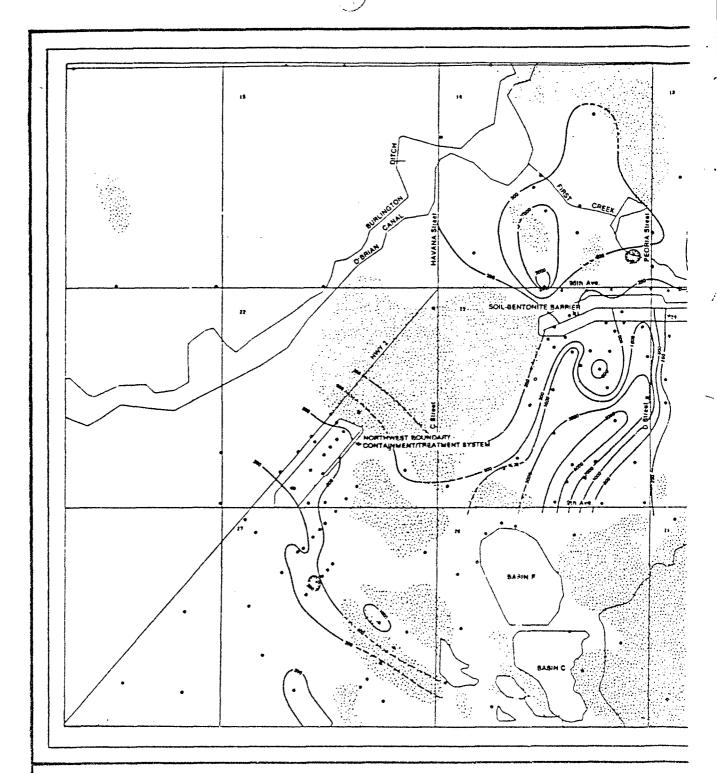
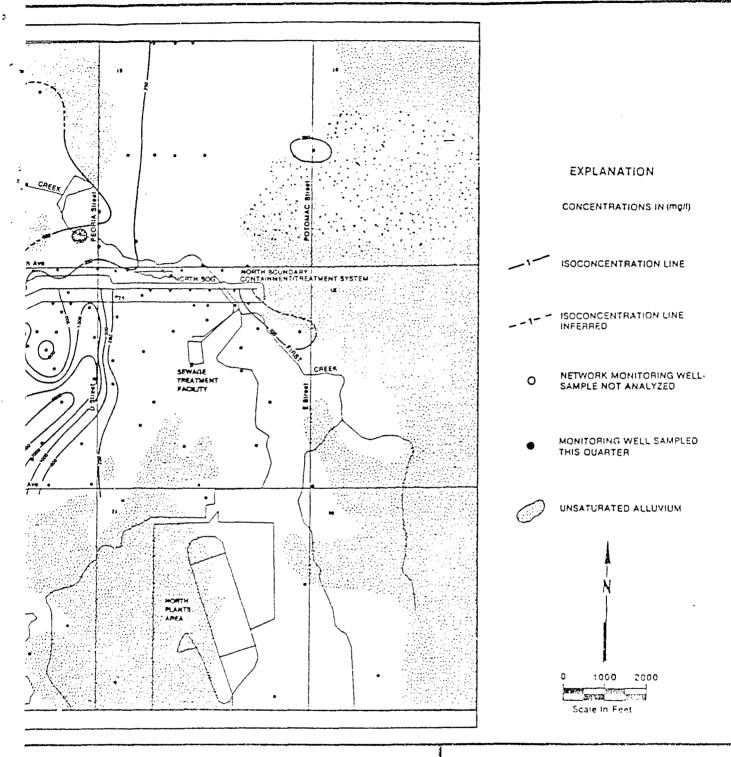


Figure B-80 C CHLORIDE CONCENTRATION DISTRIBUTION, mg/l, 3RD QUARTER, FY87, ALLUVIAL AQUIFER



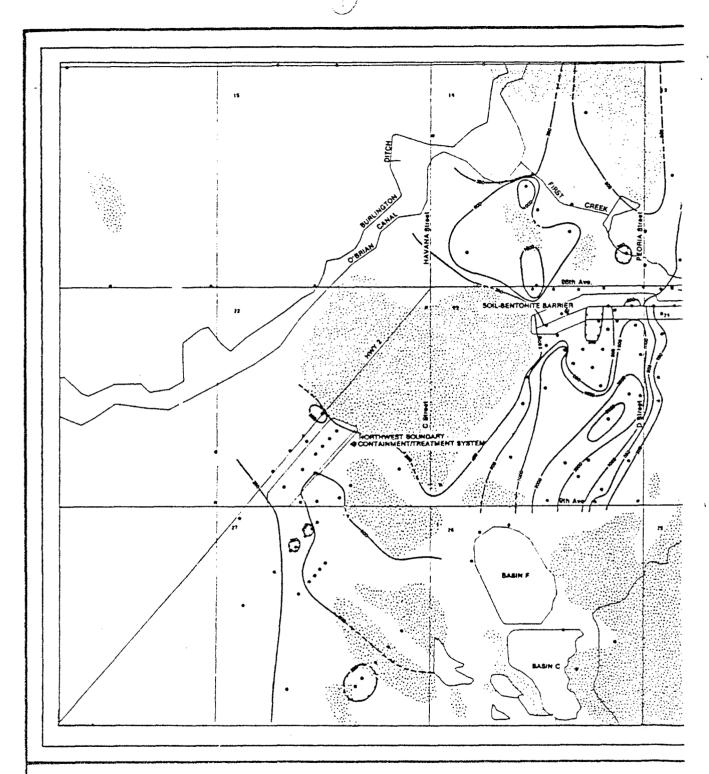
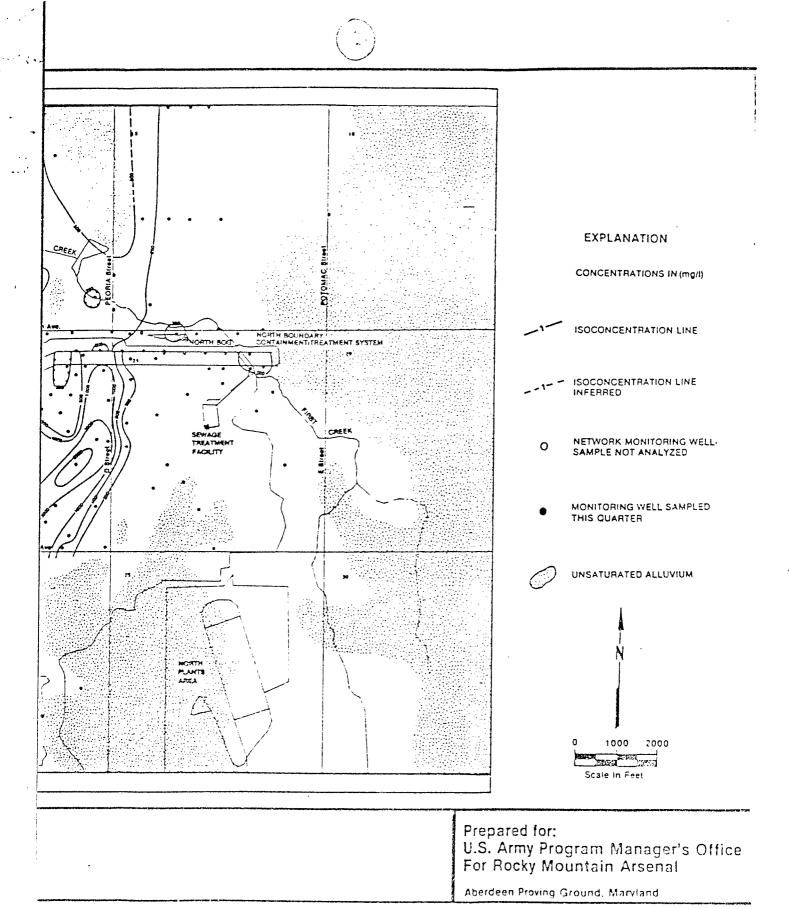


Figure B-80 D CHLORIDE CONCENTRATION DISTRIBUTION, mg/l, 4TH QUARTER, FY87, ALLUVIAL AQUIFER



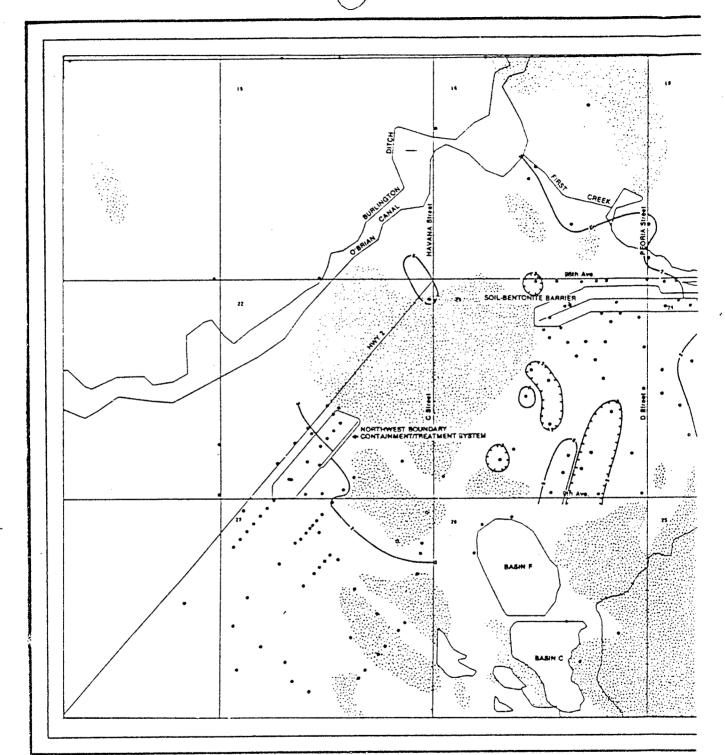
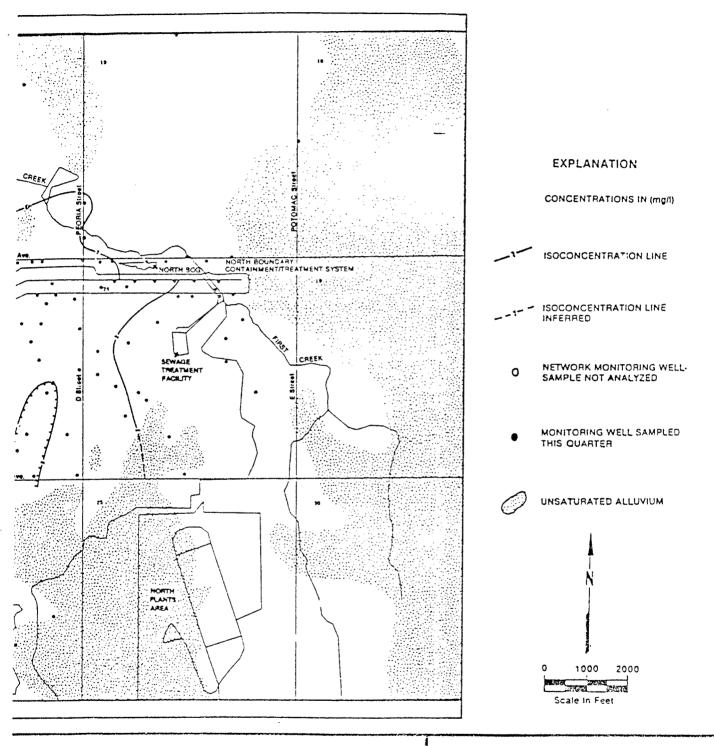


Figure B-81A FLUORIDE CONCENTRATION DISTRIBUTION, mg/l, 1ST QUARTER, FY87, ALLUVIAL AQUIFER



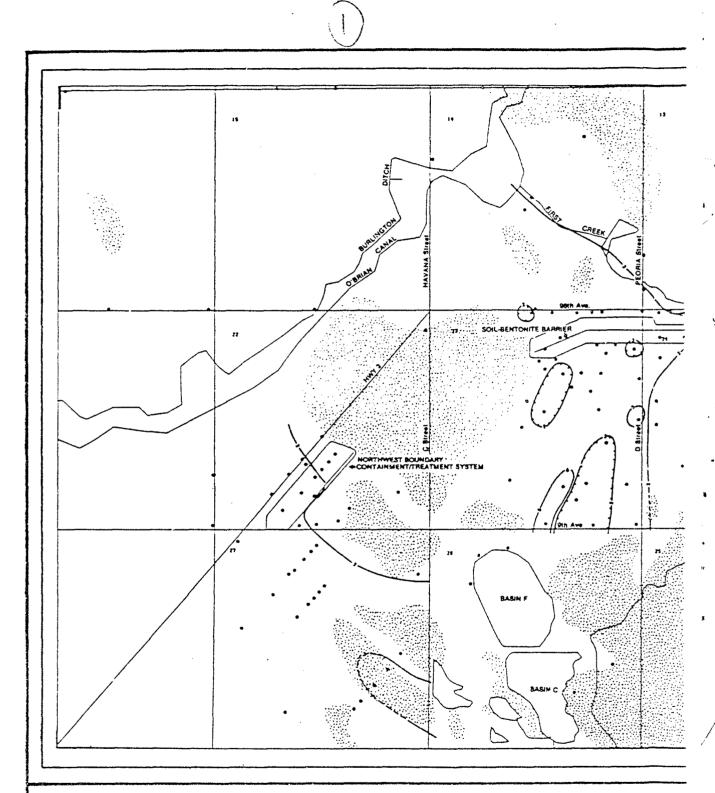
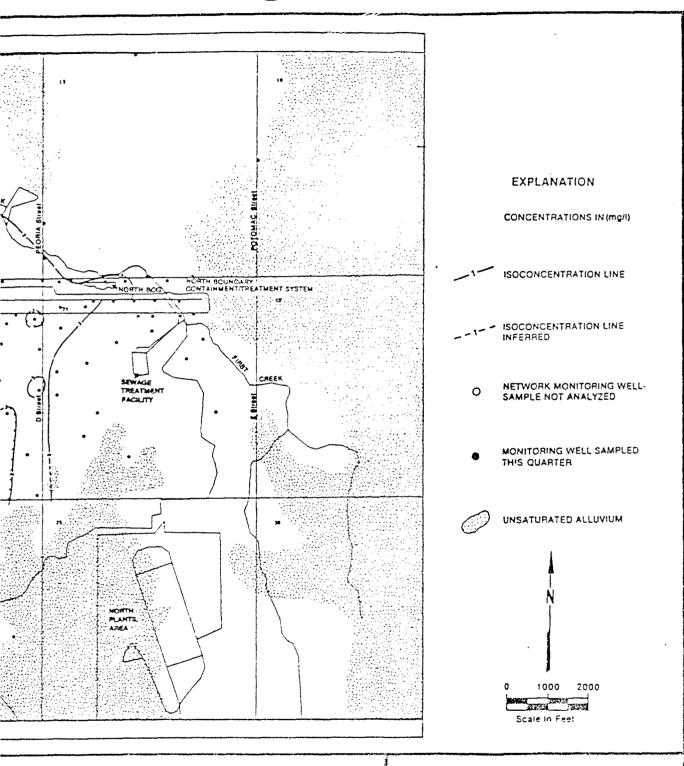


Figure B-81 B FLUORIDE CONCENTRATION DISTRIBUTION, mg/l, 2ND QUARTER, FY87, ALLUVIAL AQUIFER





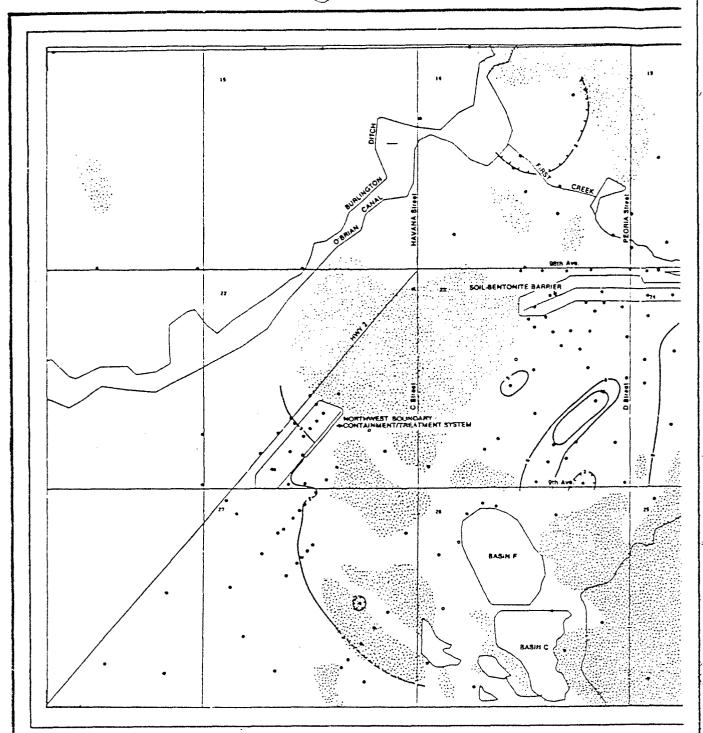
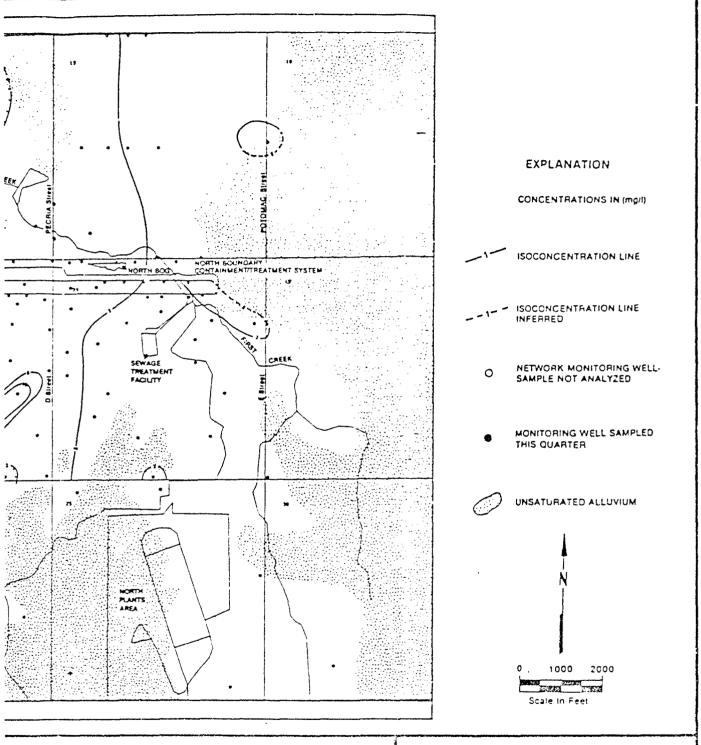


Figure B-81C FLUORIDE CONCENTRATION DISTRIBUTION, mg/l, 3RD QUARTER, FY87, ALLUVIAL AQUIFER



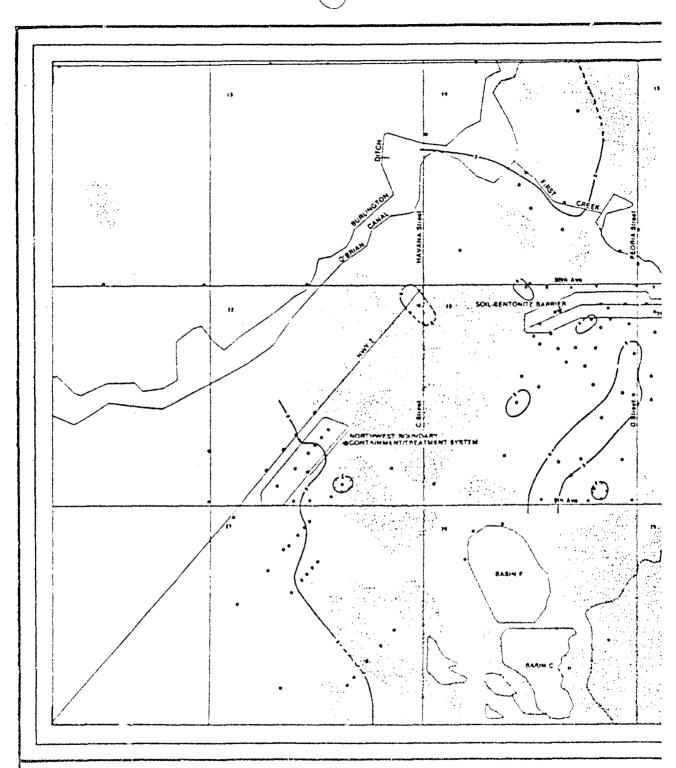


Figure B-81D FLUORIDE CONCENTRATION DISTRIBUTION, mg/l, 4TH QUARTER, FY87, ALLUVIAL AQUIFER

NOUNCE ESE 1988

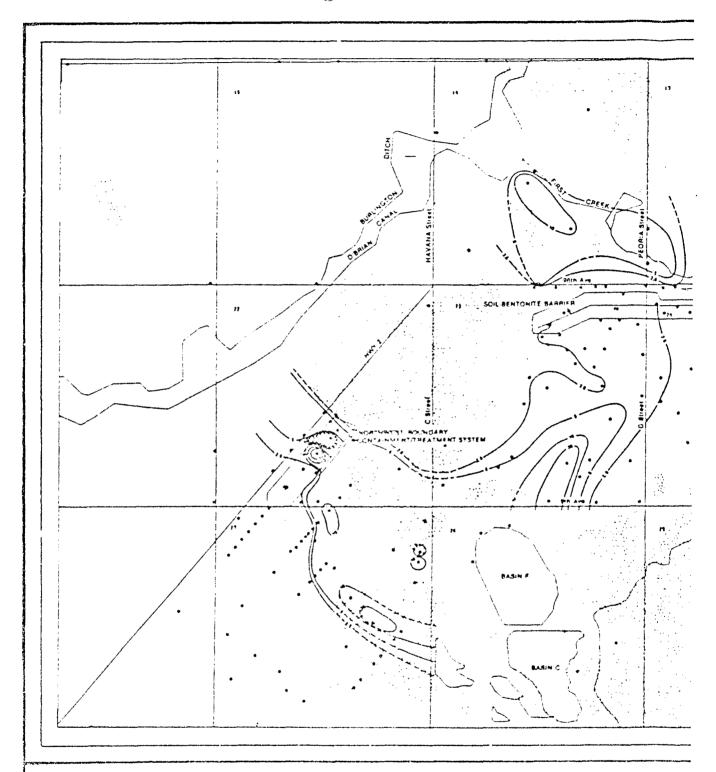
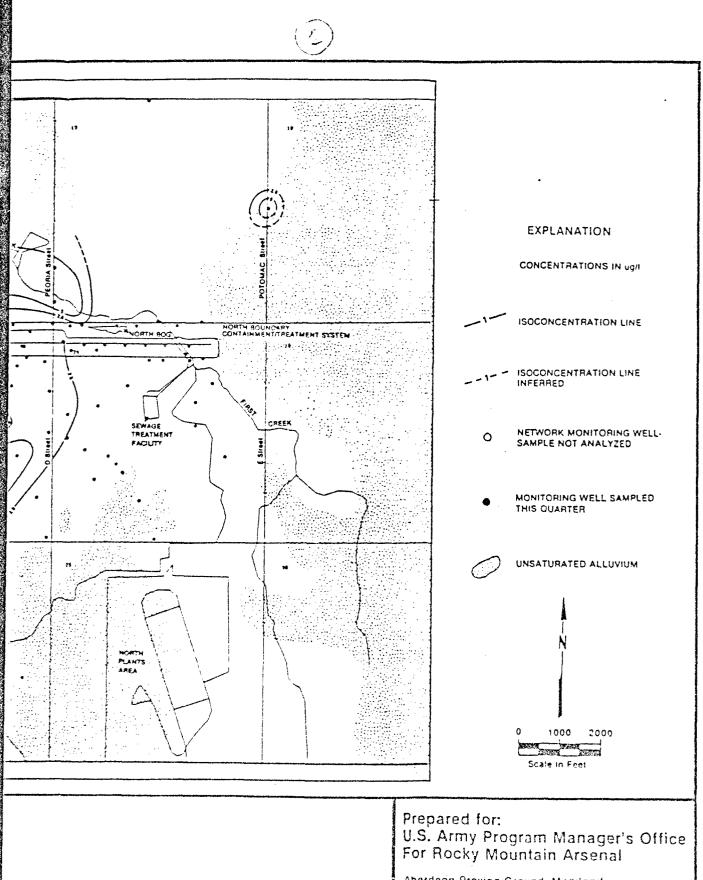
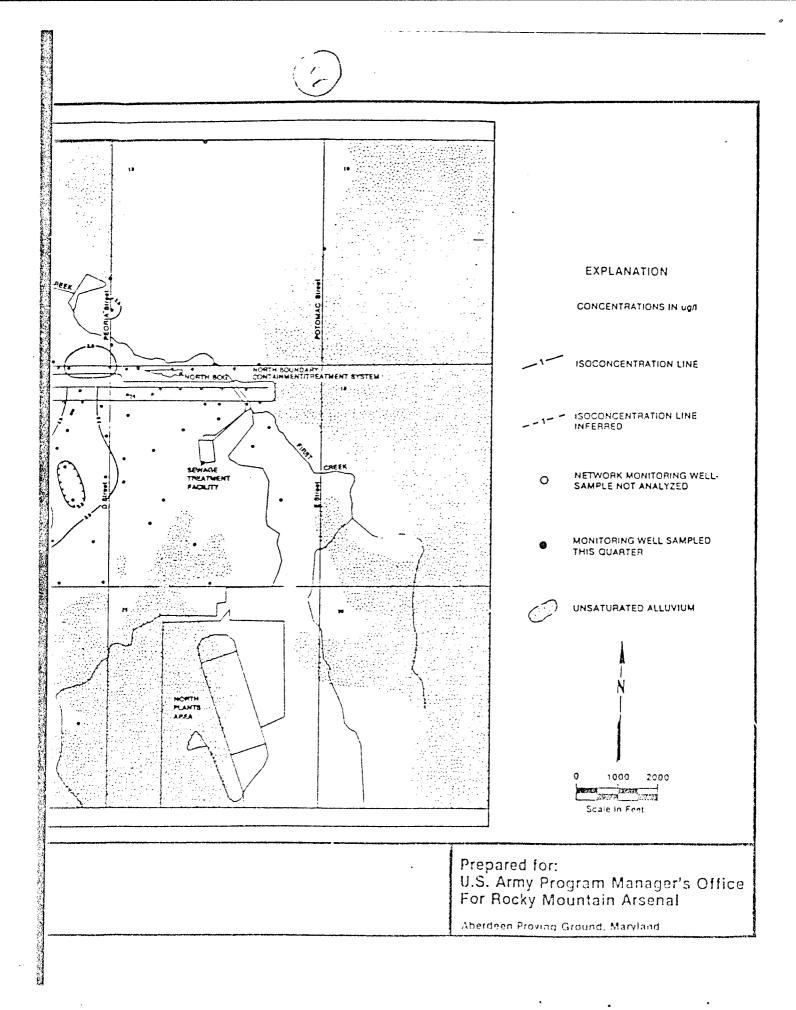


Figure B-82A ARSENIC CONCENTRATION DISTRIBUTION, ug/l, 1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESF 1983





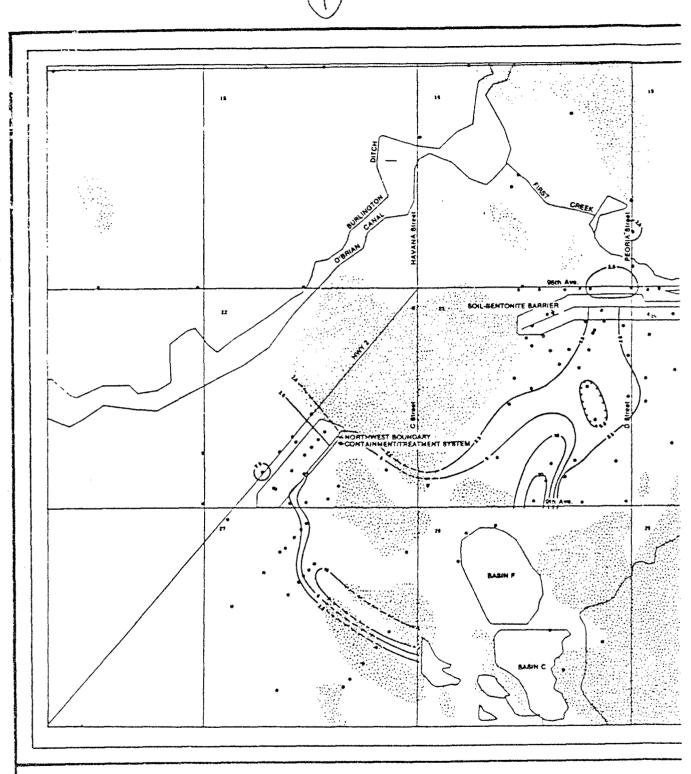
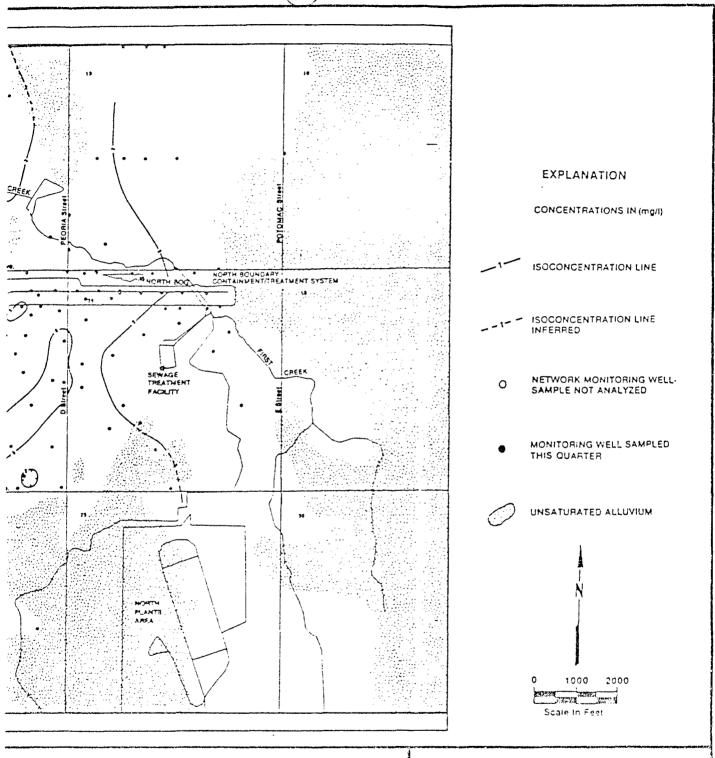


Figure B-82 B ARSENIC CONCENTRATION DISTRIBUTION, ug/l, 2ND QUARTER, FY87, ALLUVIAL AQUIFER







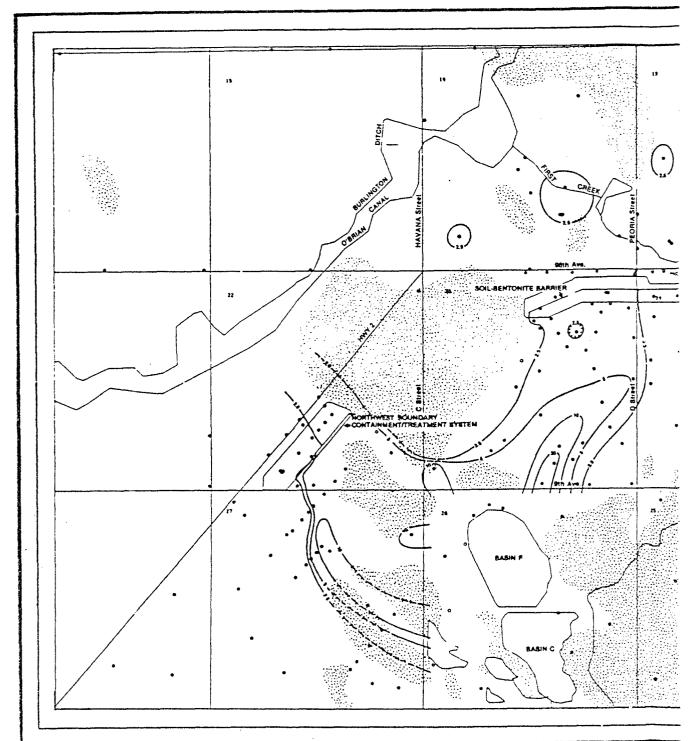
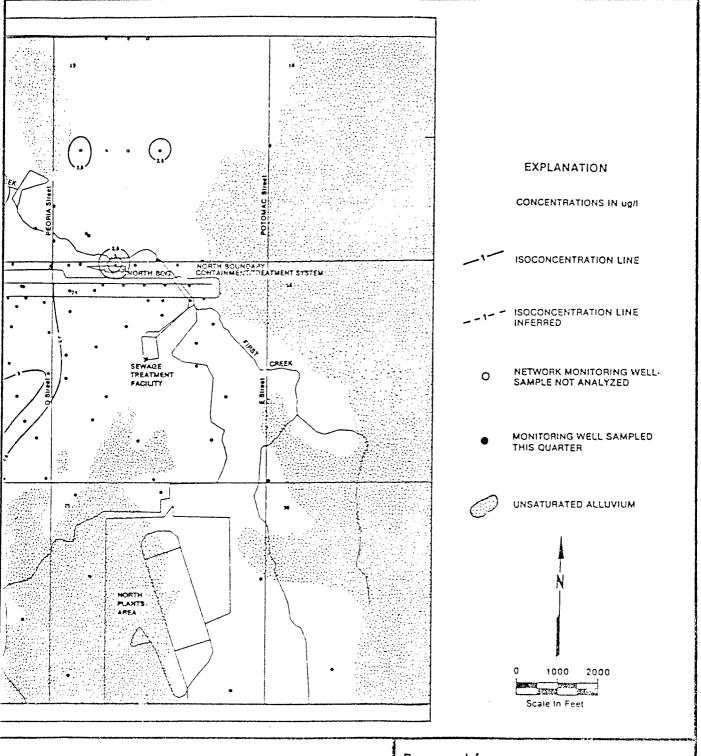


Figure B-82 C ARSENIC CONCENTRATION DISTRIBUTION, ug/l, 3RD QUARTER, FY87, ALLUVIAL AQUIFER







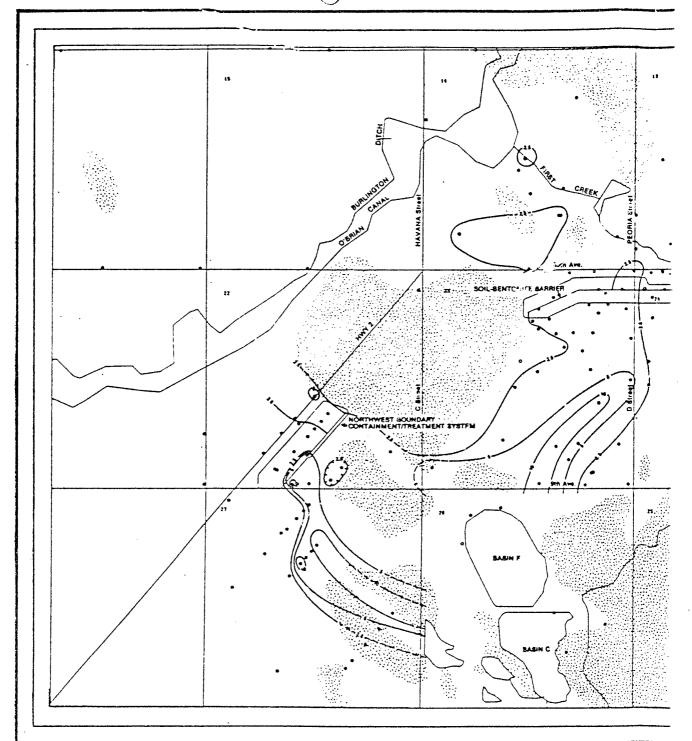
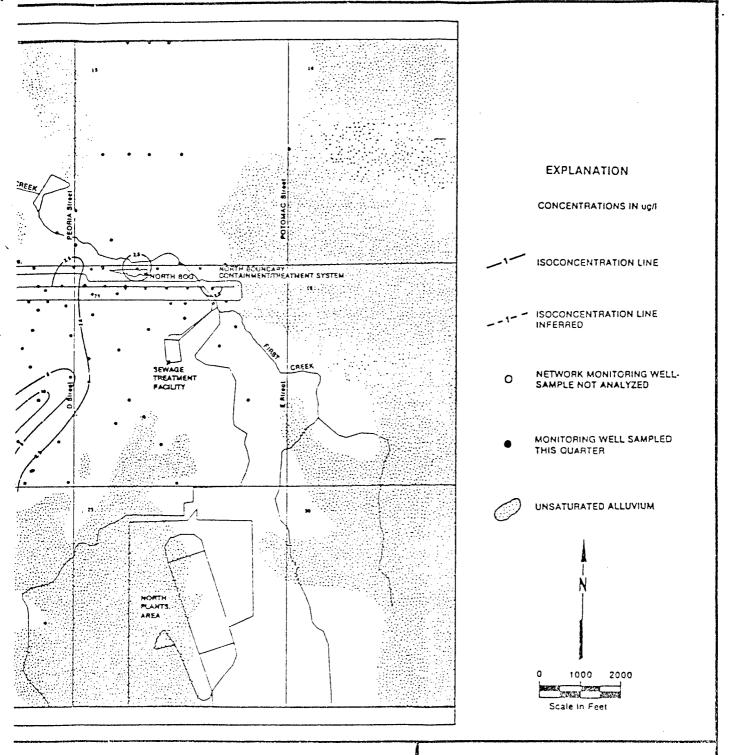
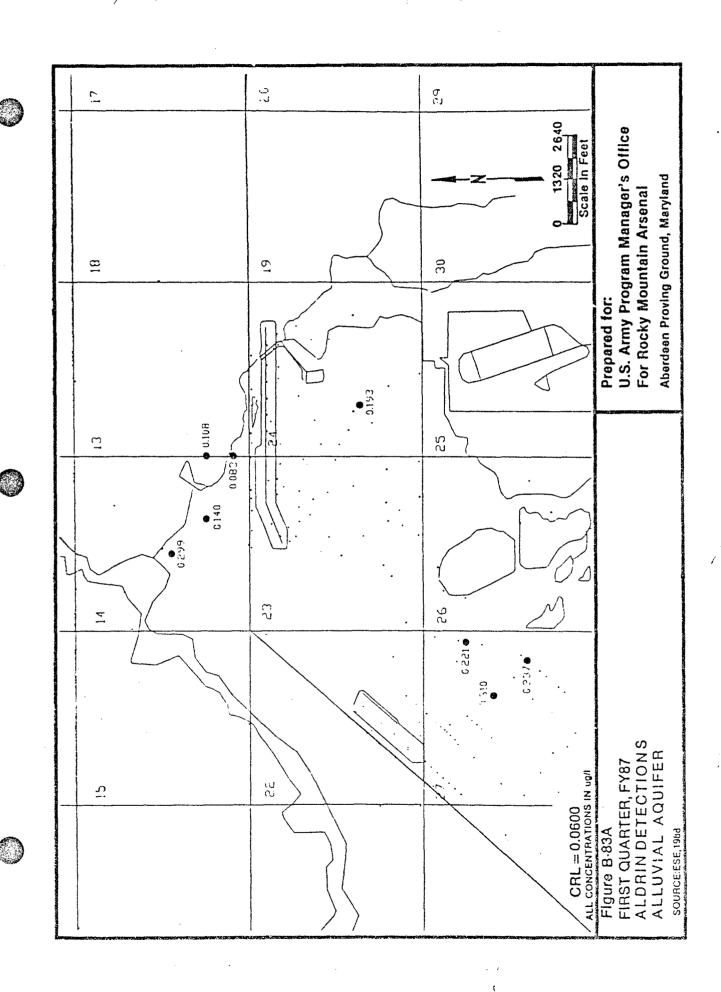
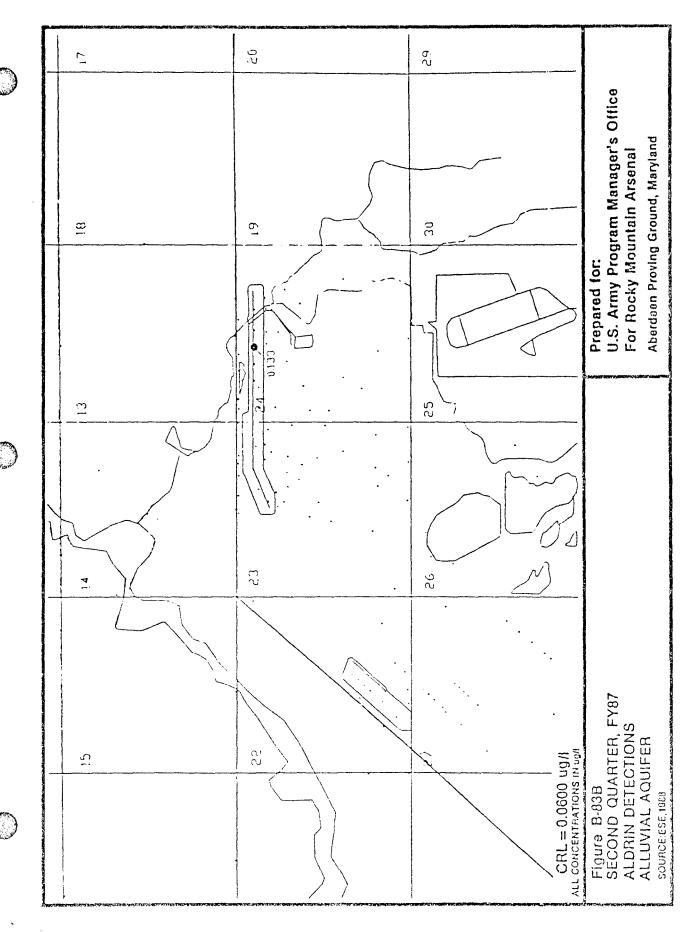
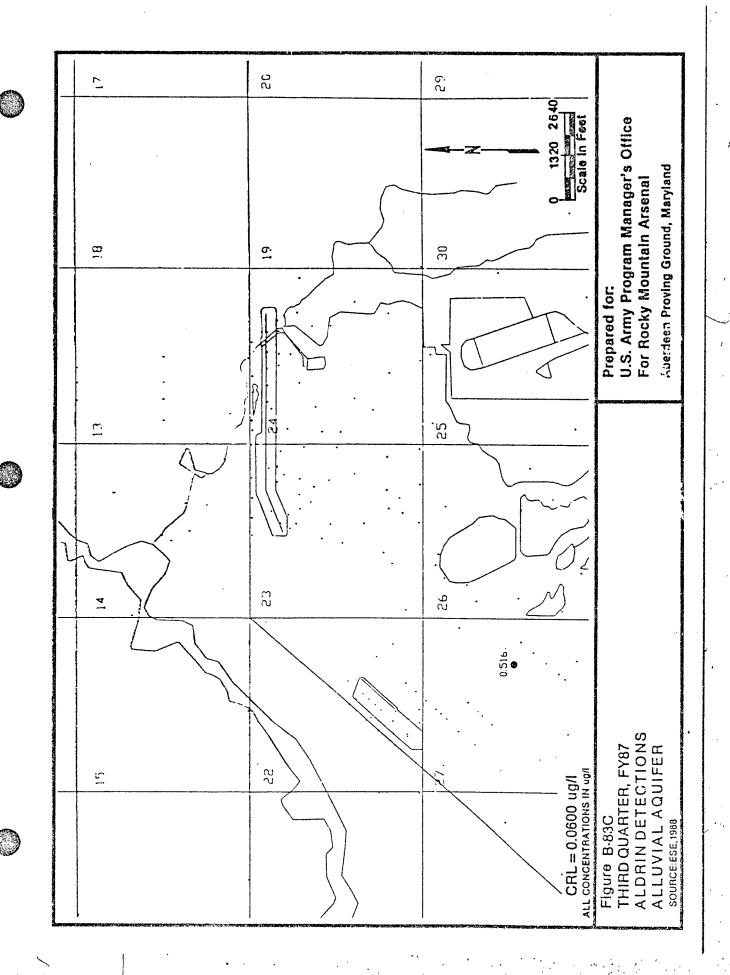


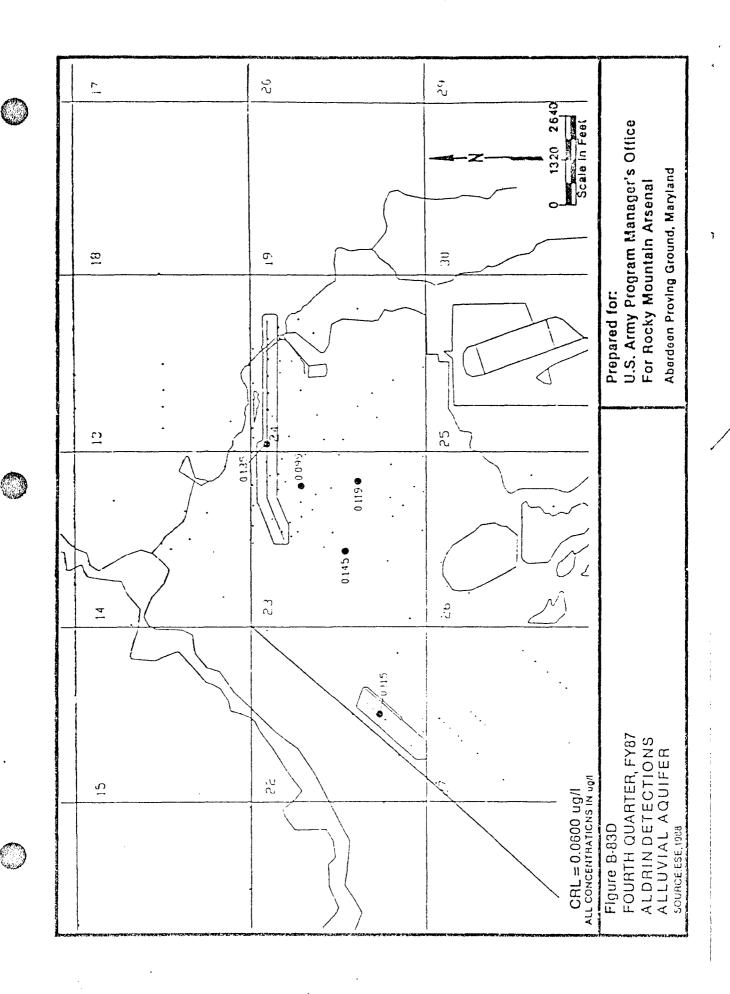
Figure B-82 D ARSENIC CONCENTRATION DISTRIBUTION, ug/l, 4TH QUARTER, FY87, ALLUVIAL AQUIFER

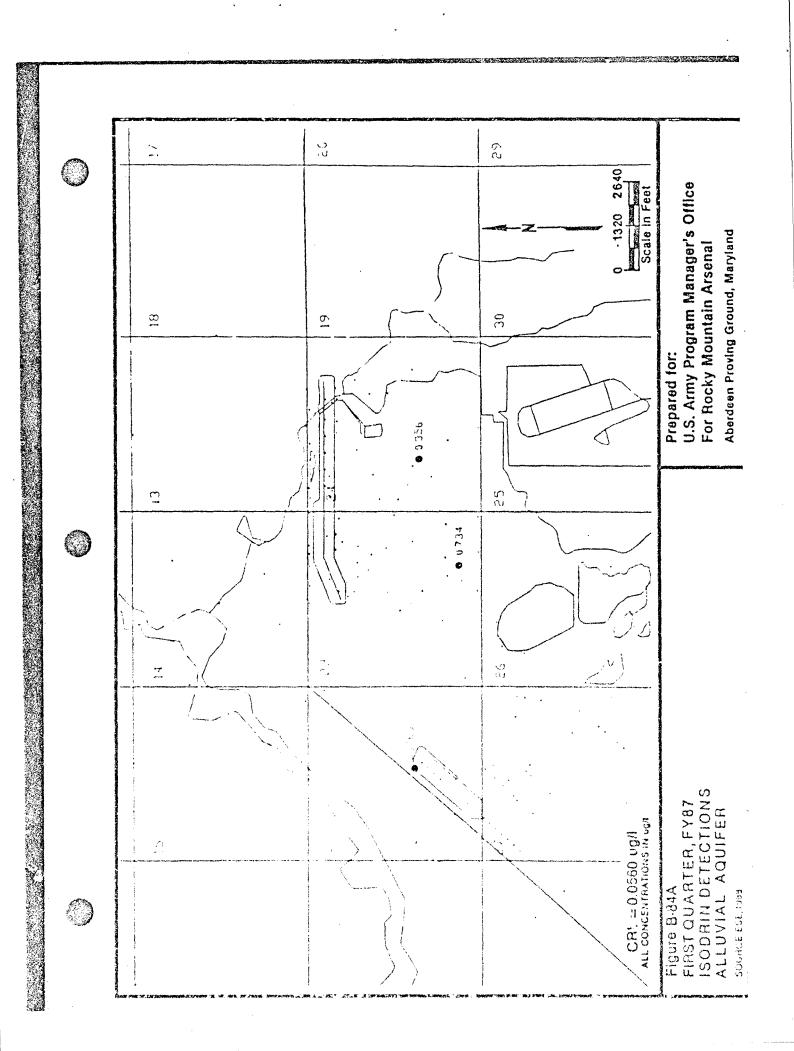


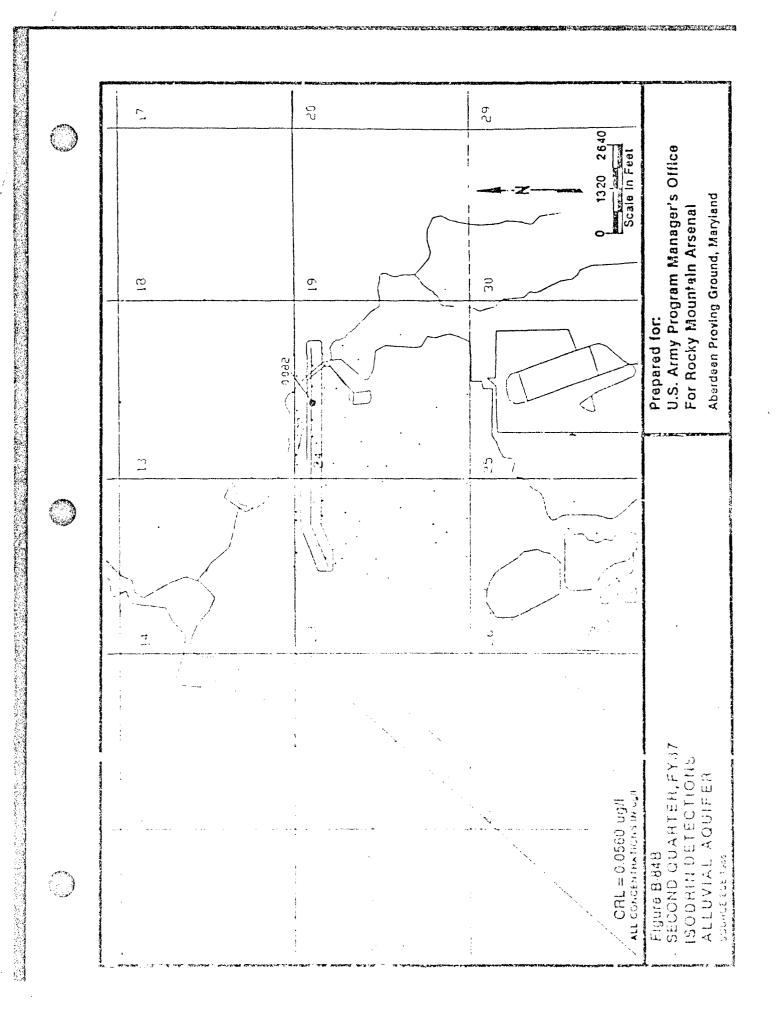


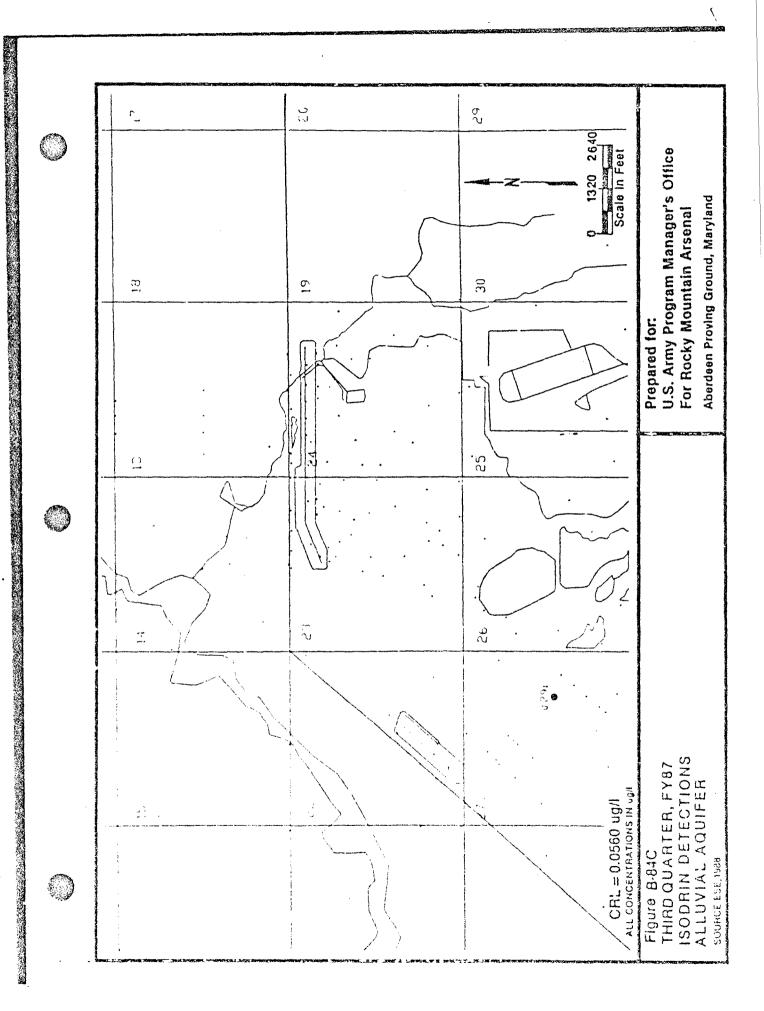


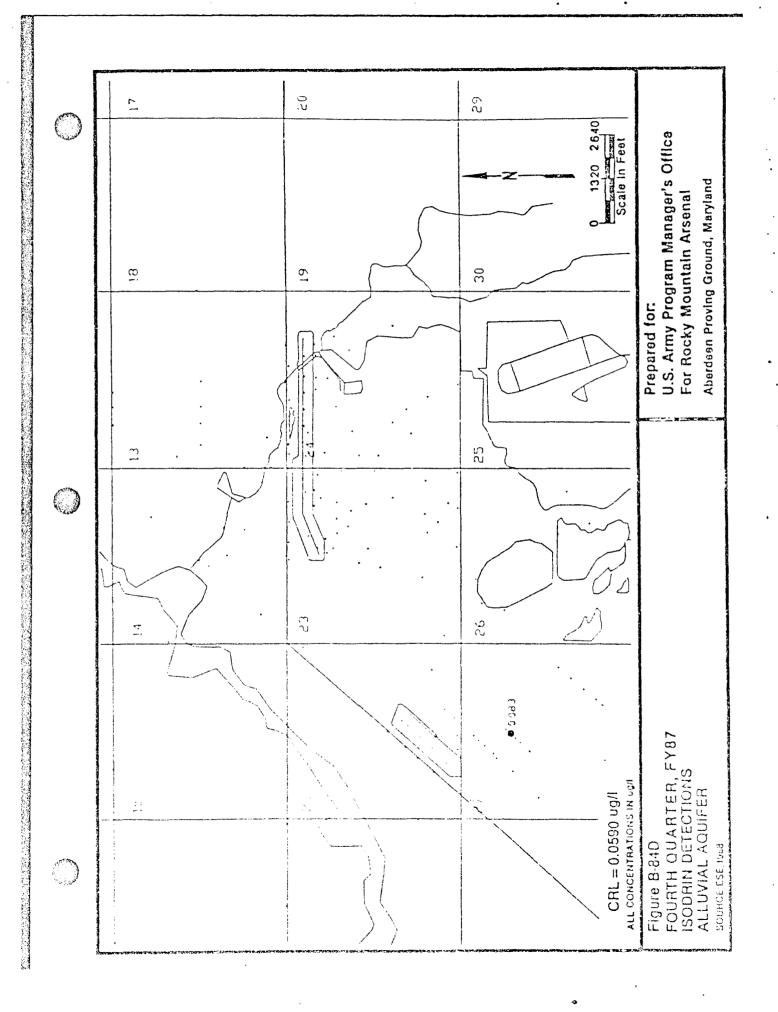


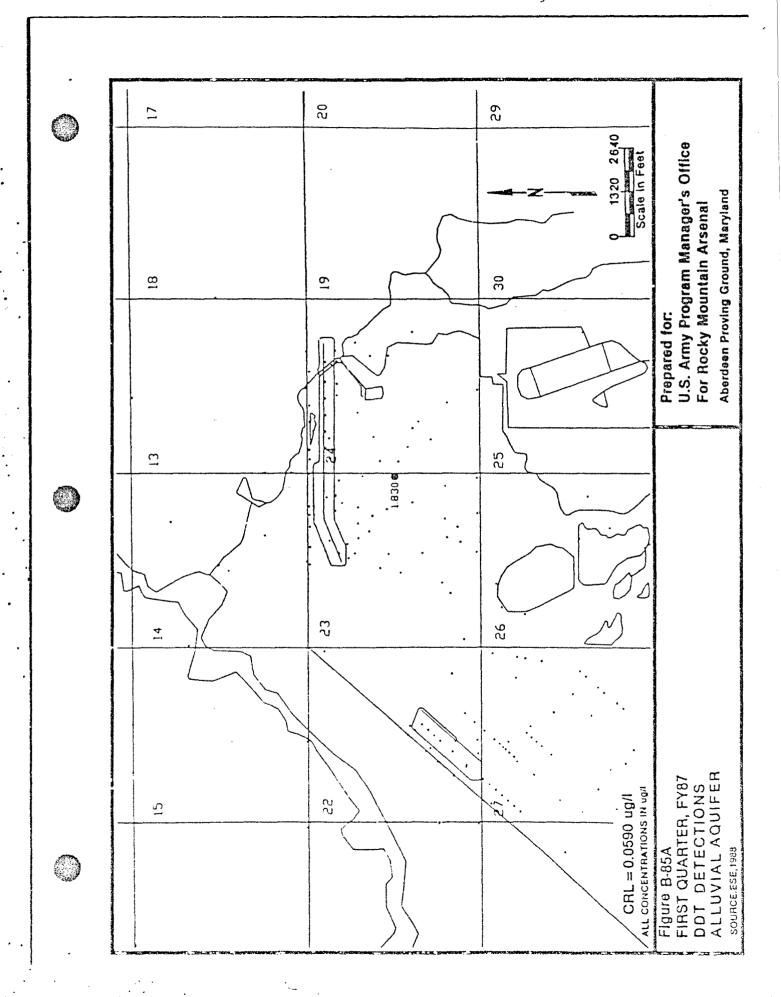


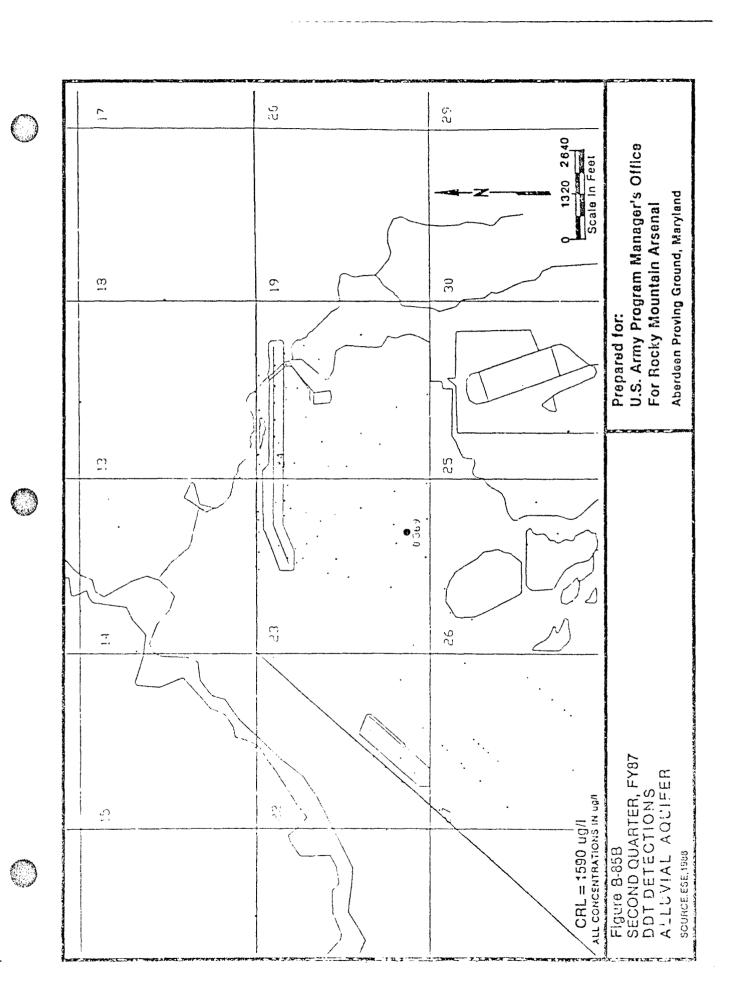


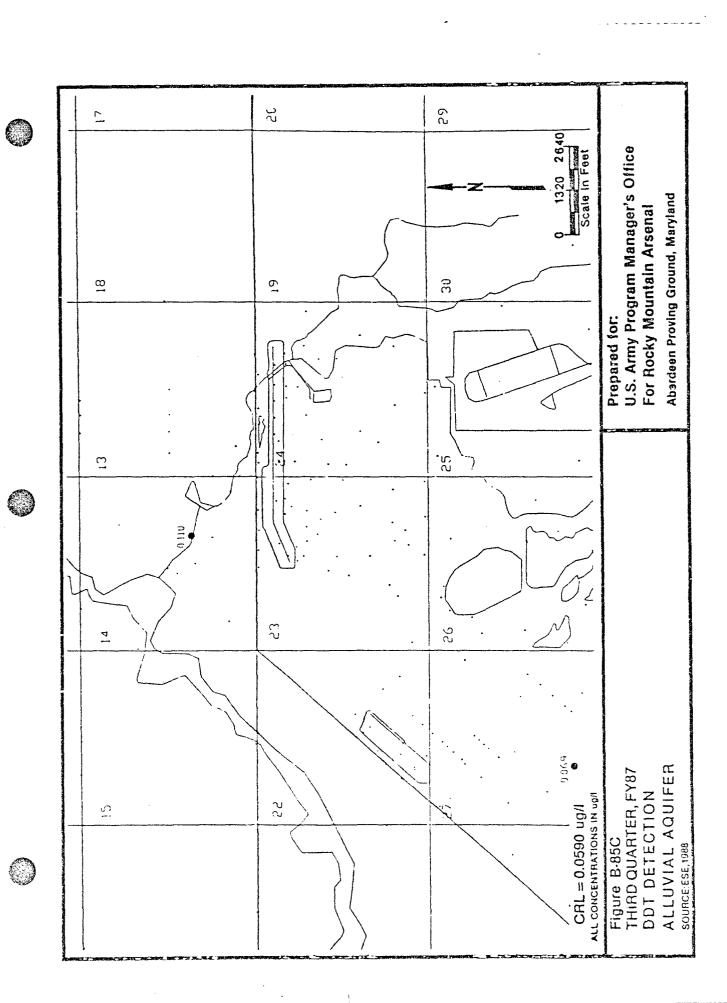


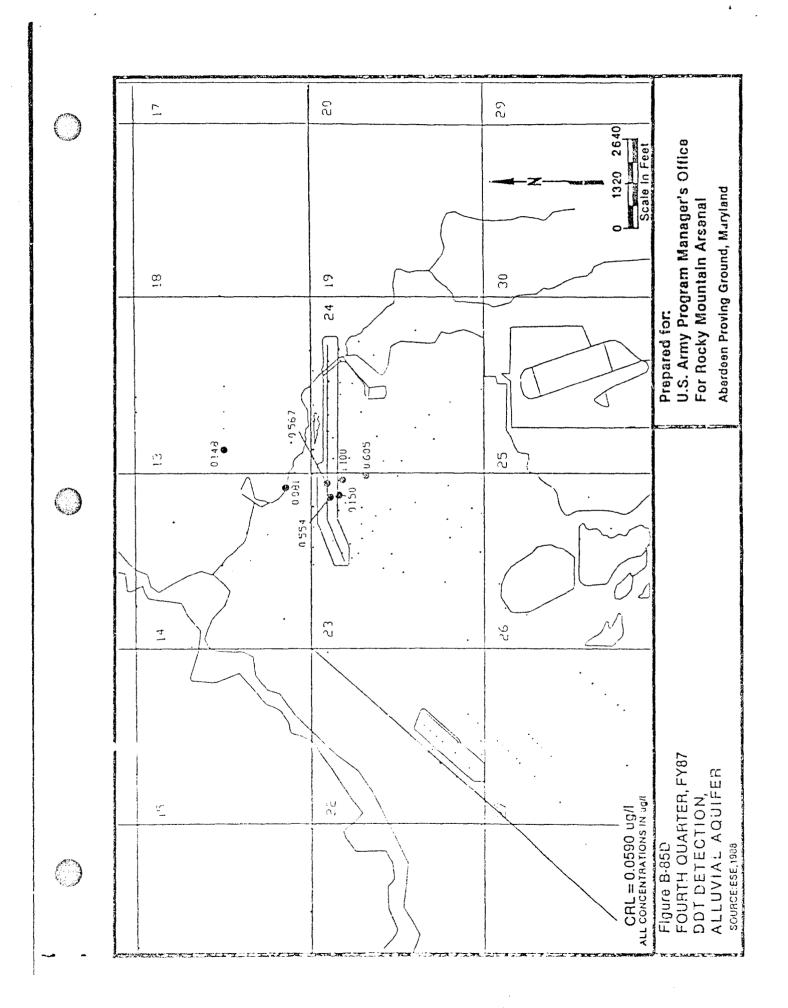


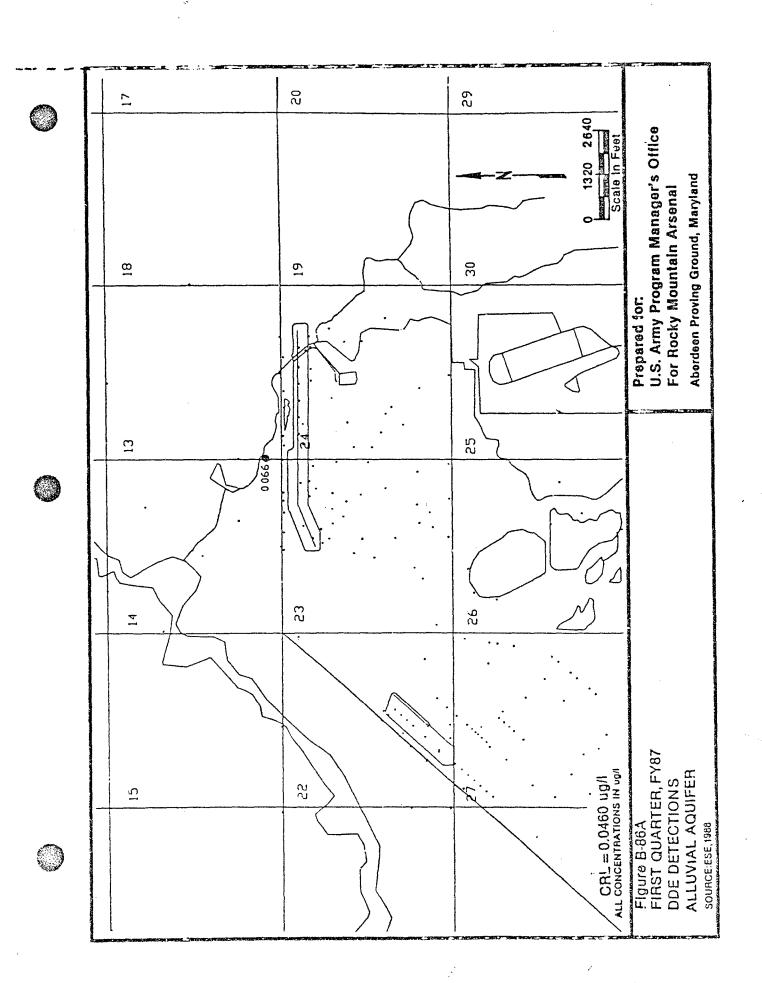


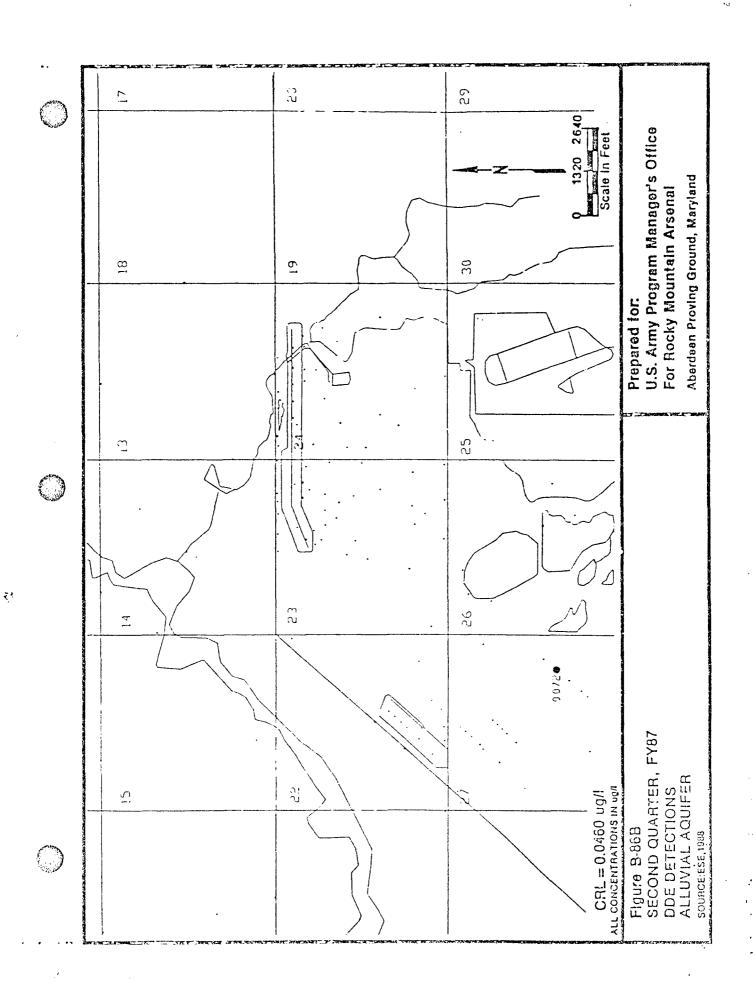


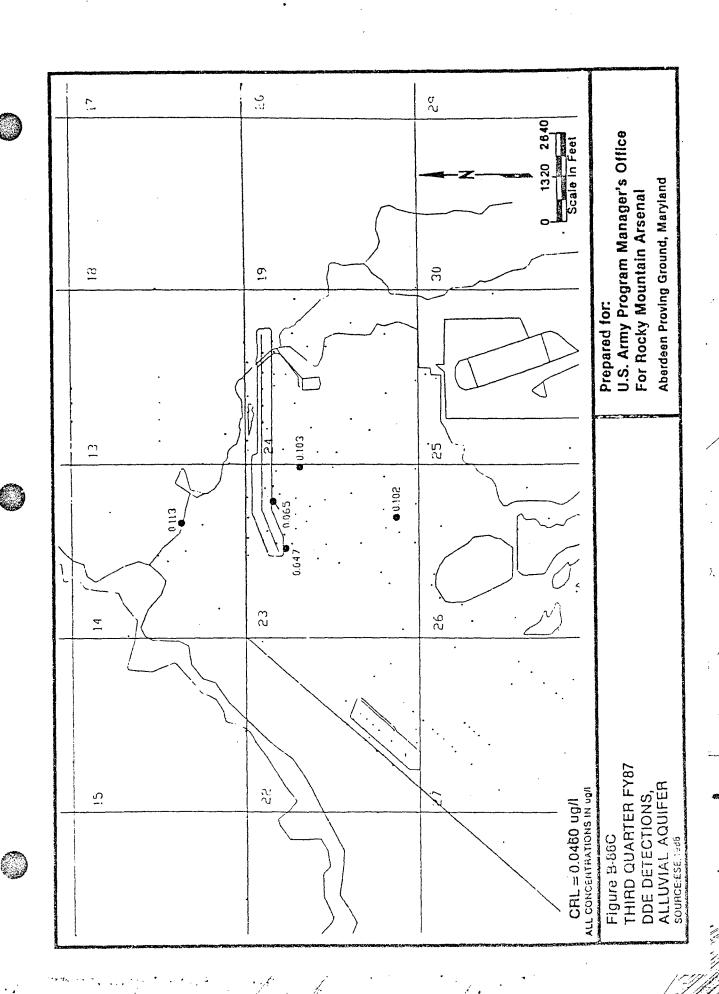


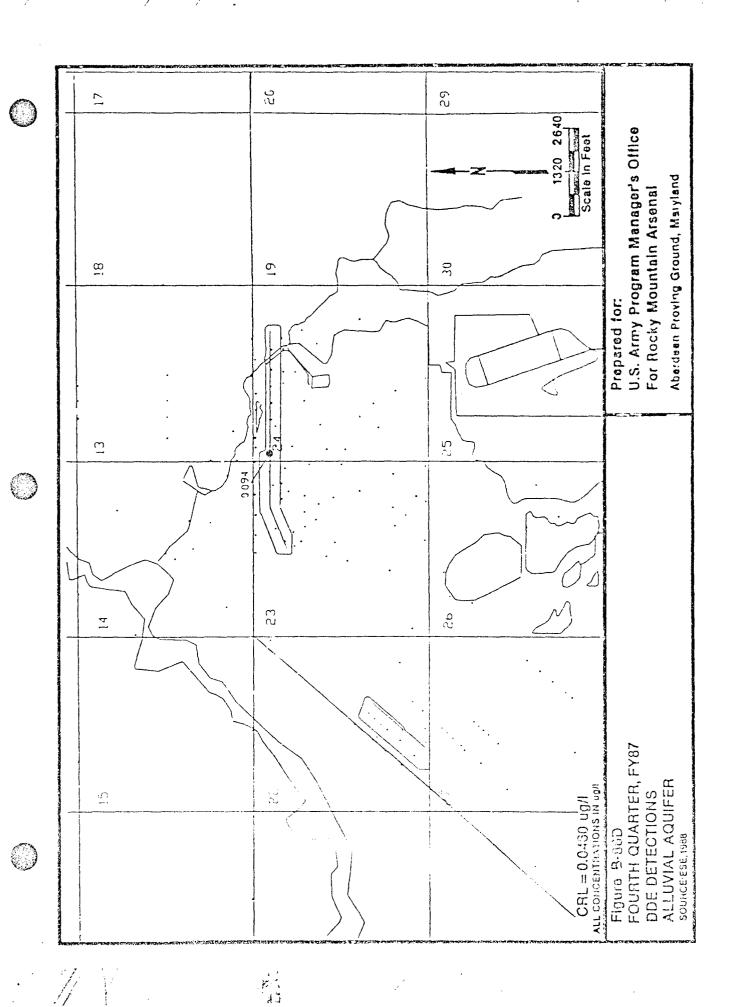


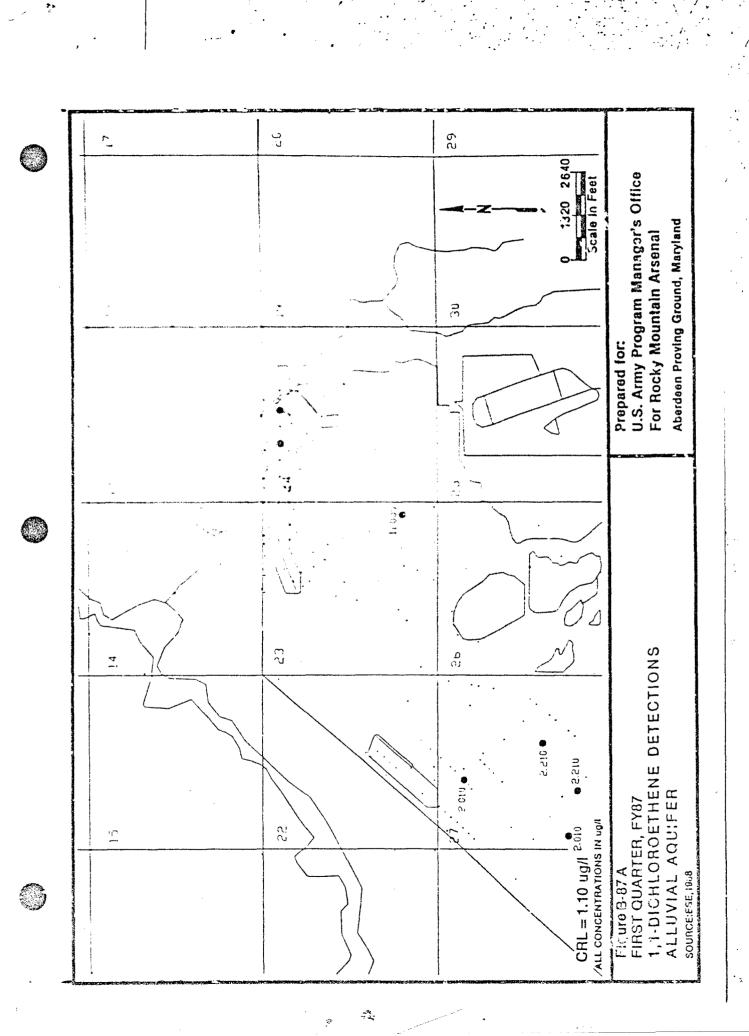


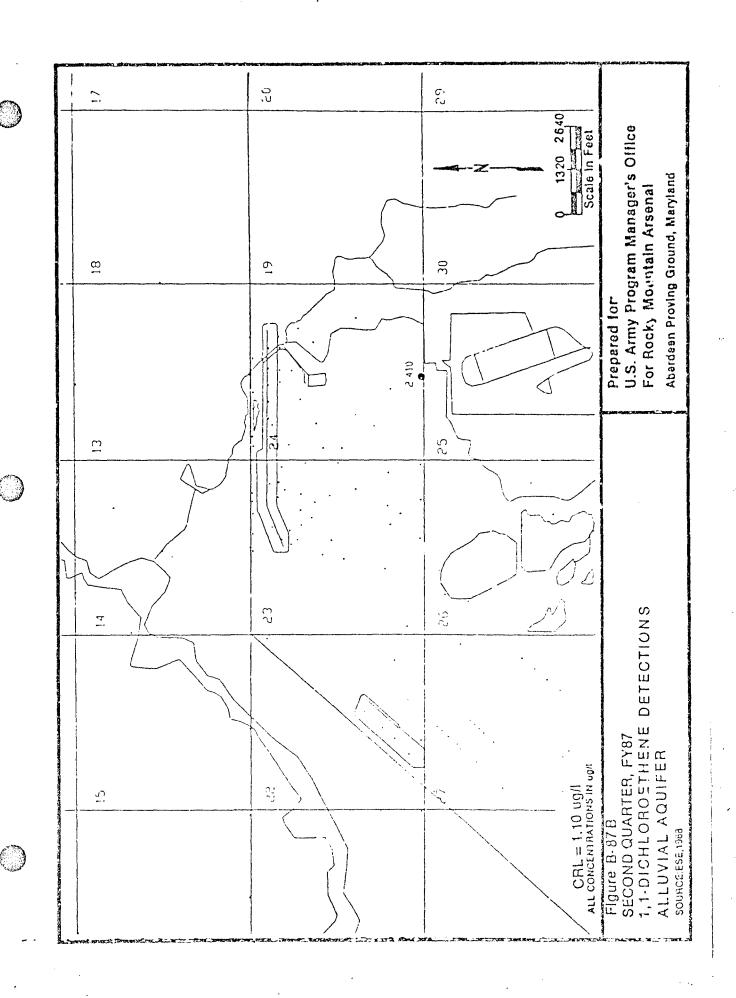


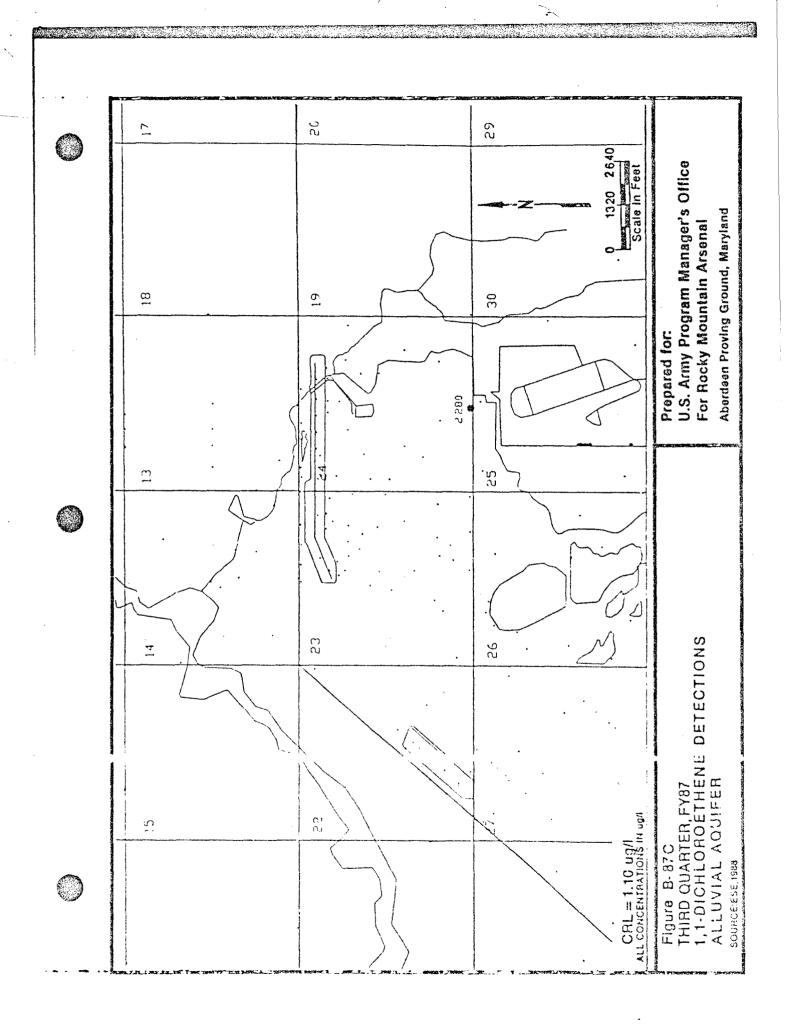


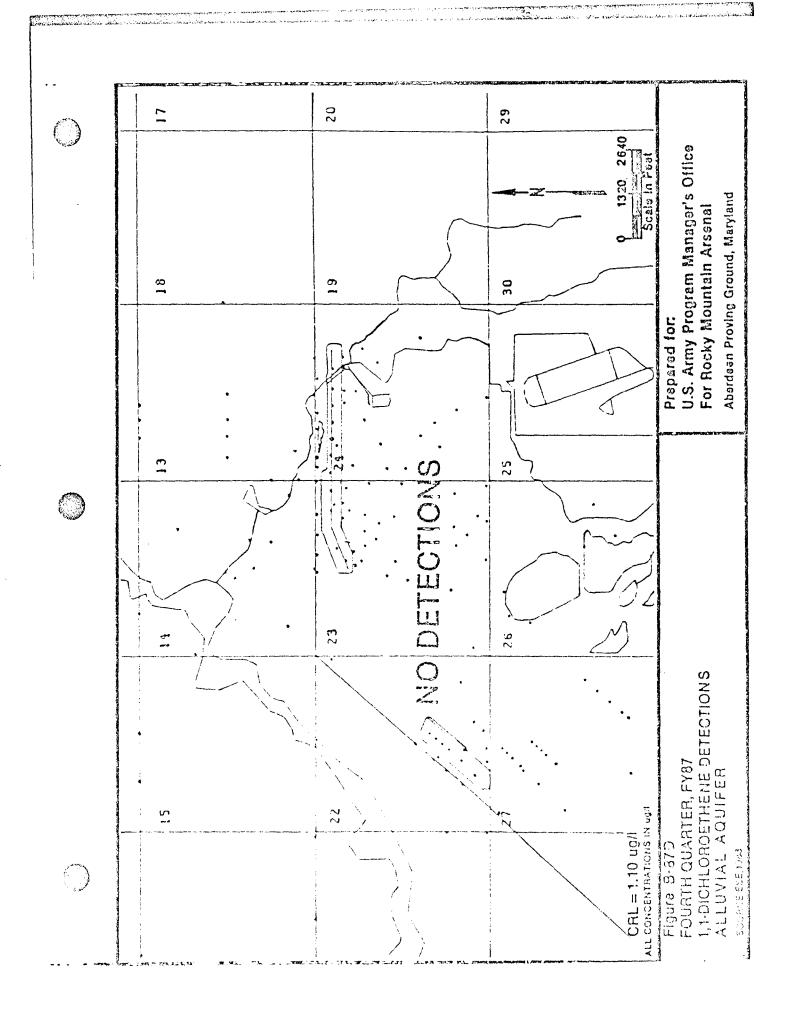


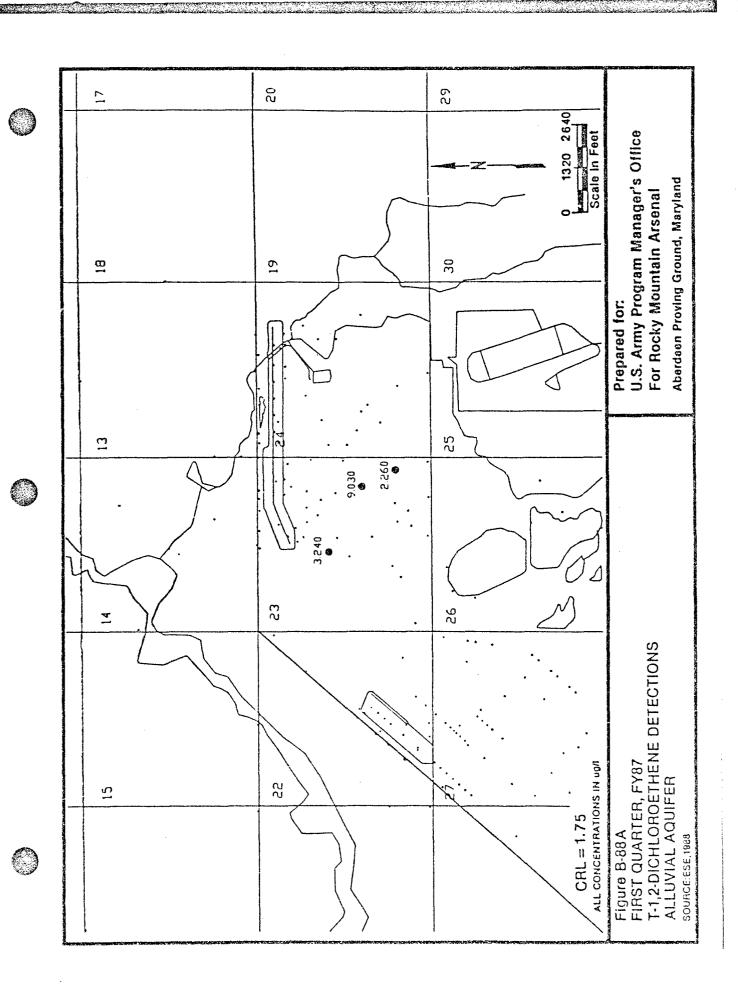


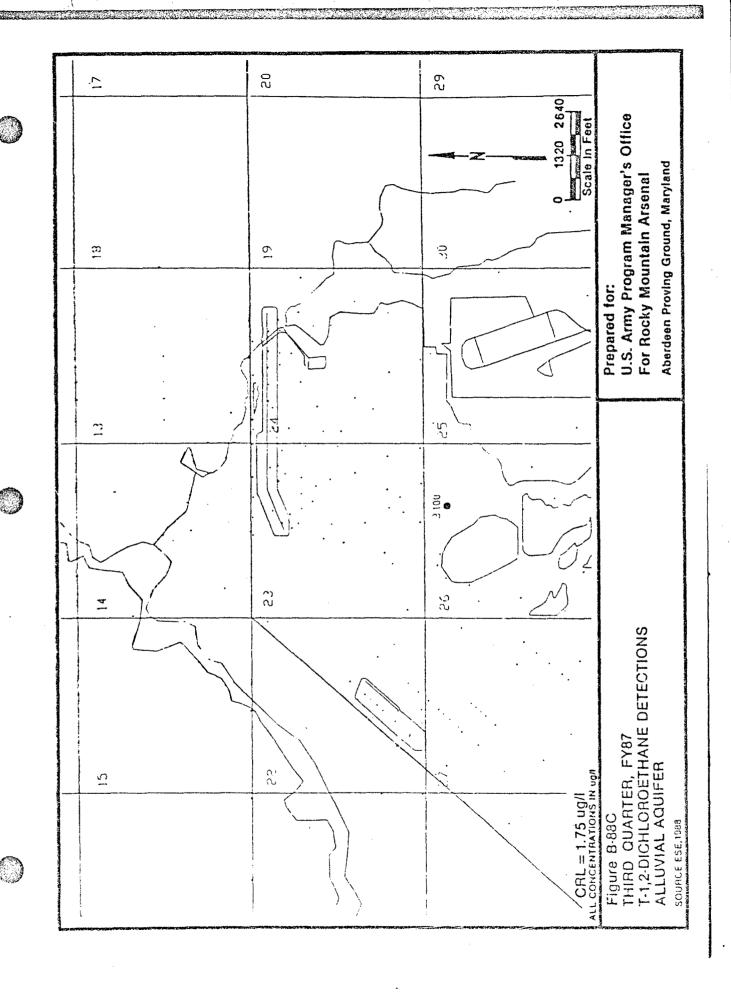


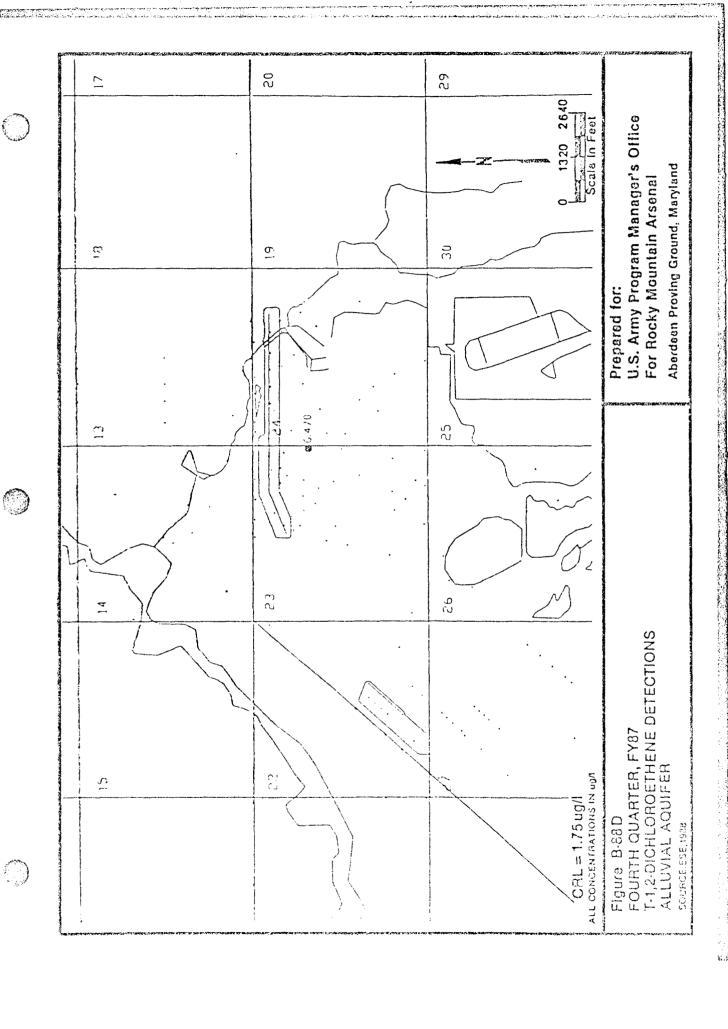


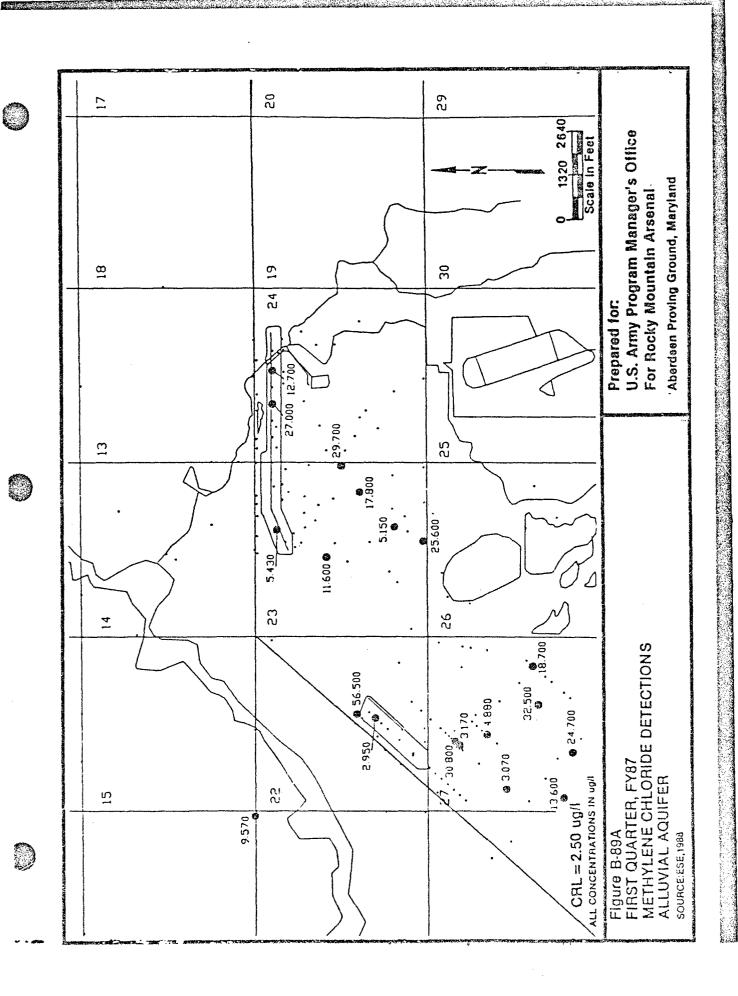


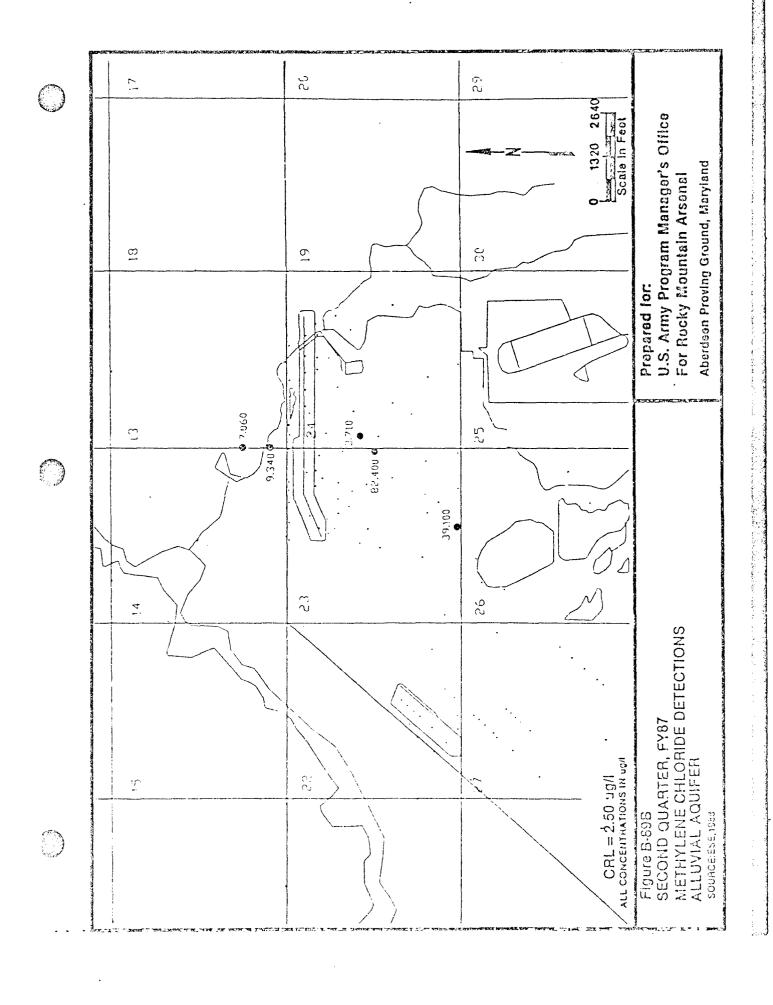


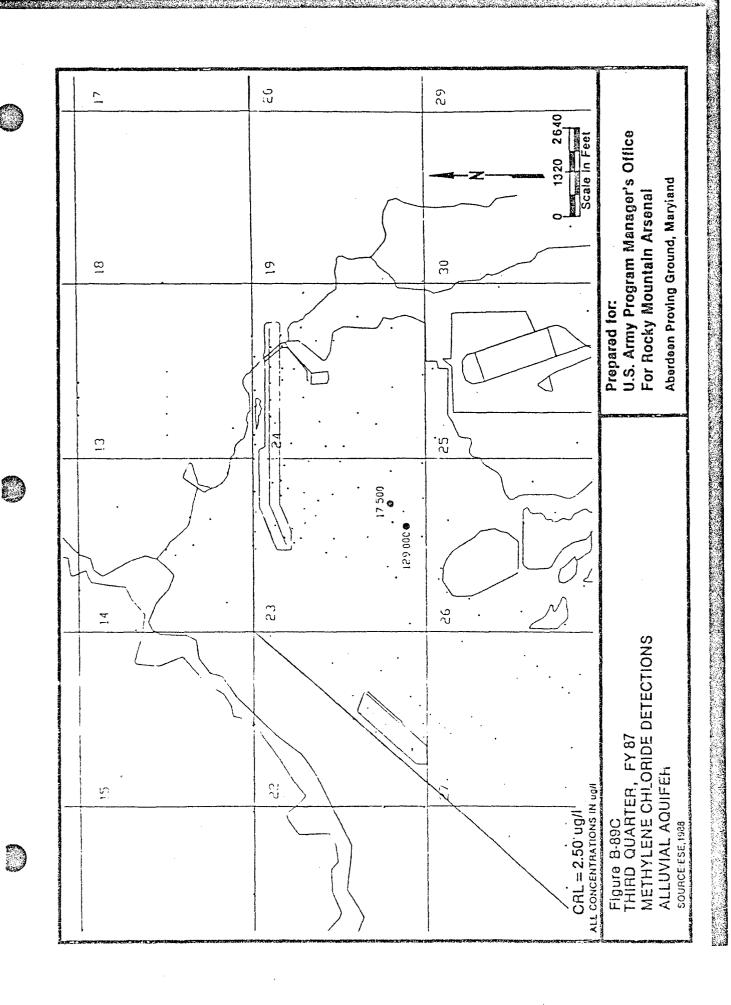


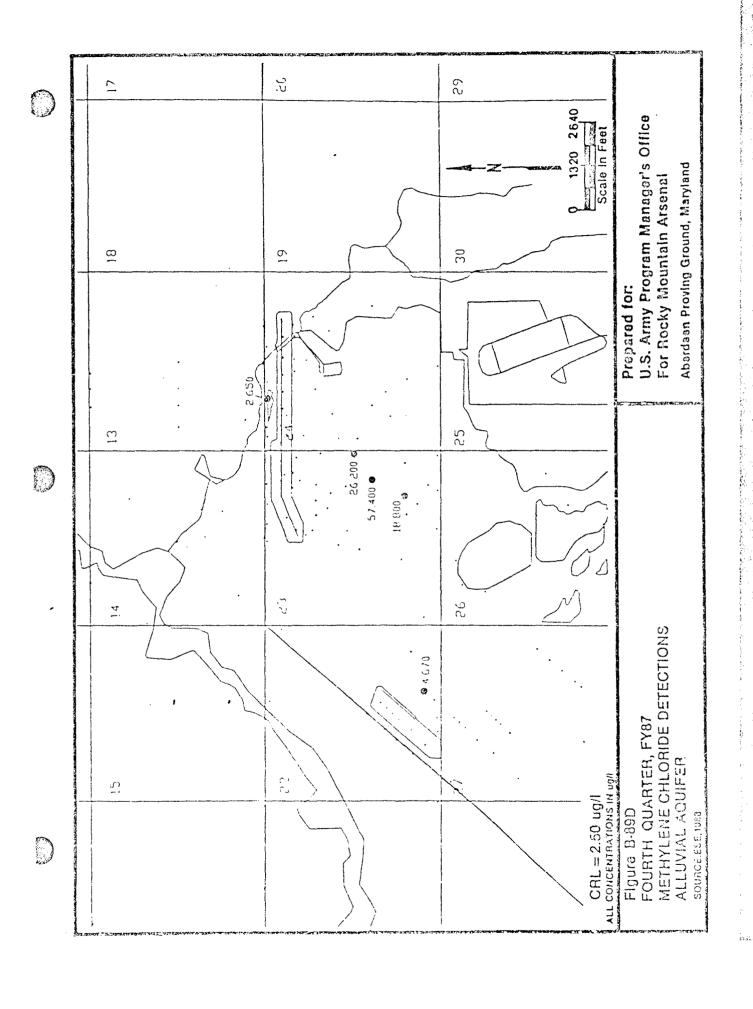




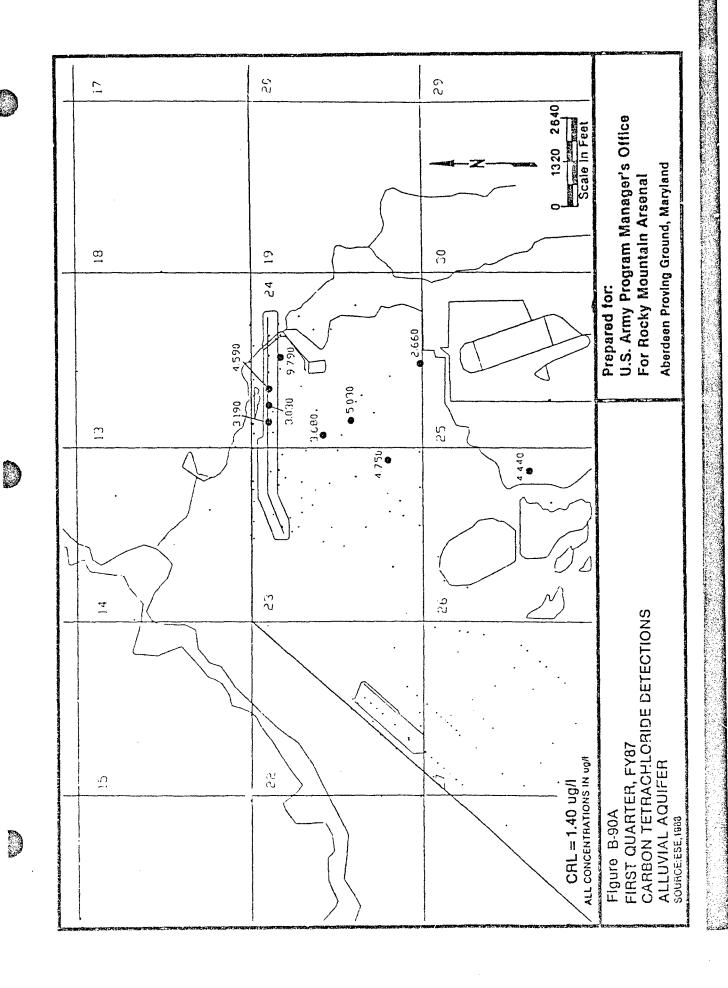


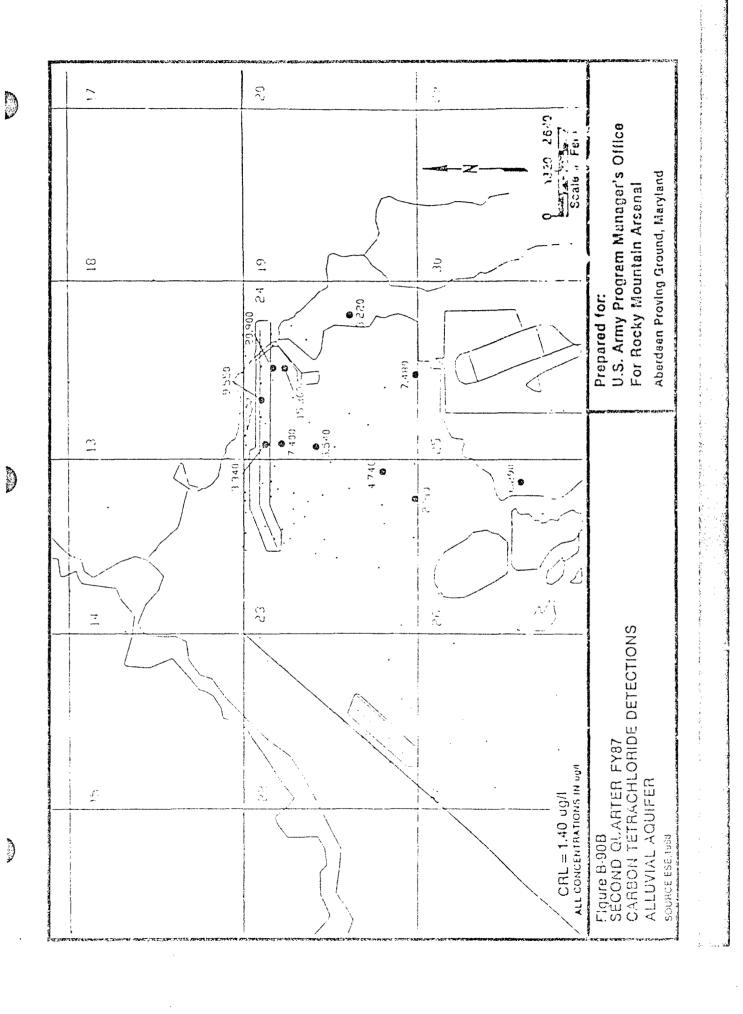


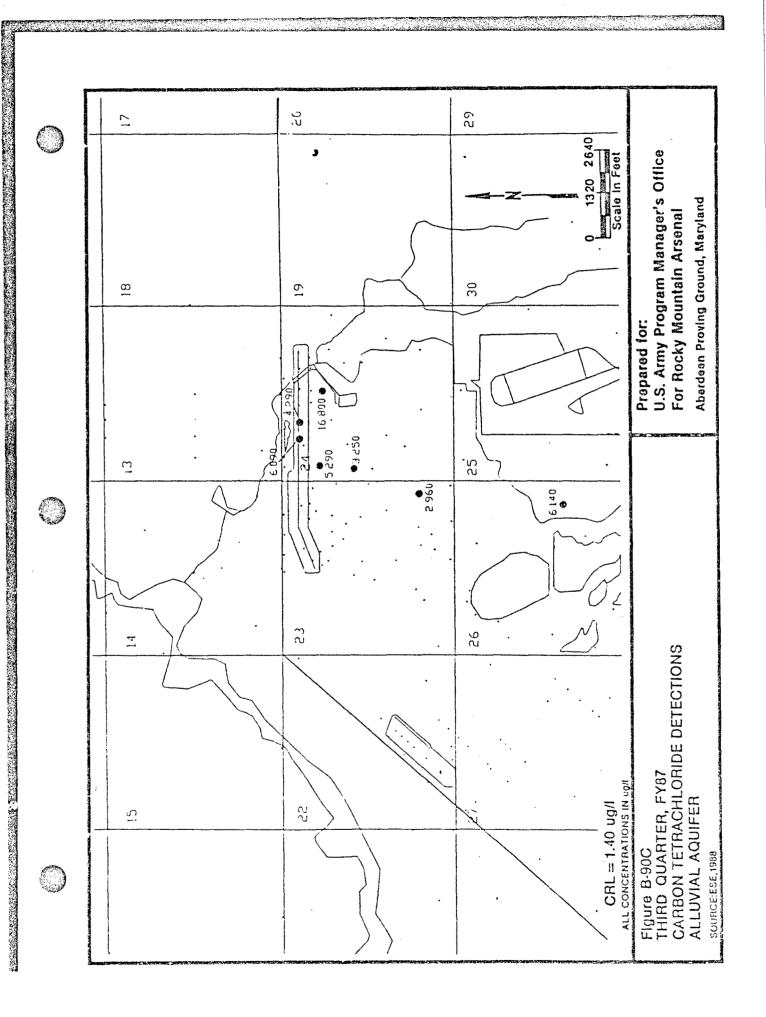


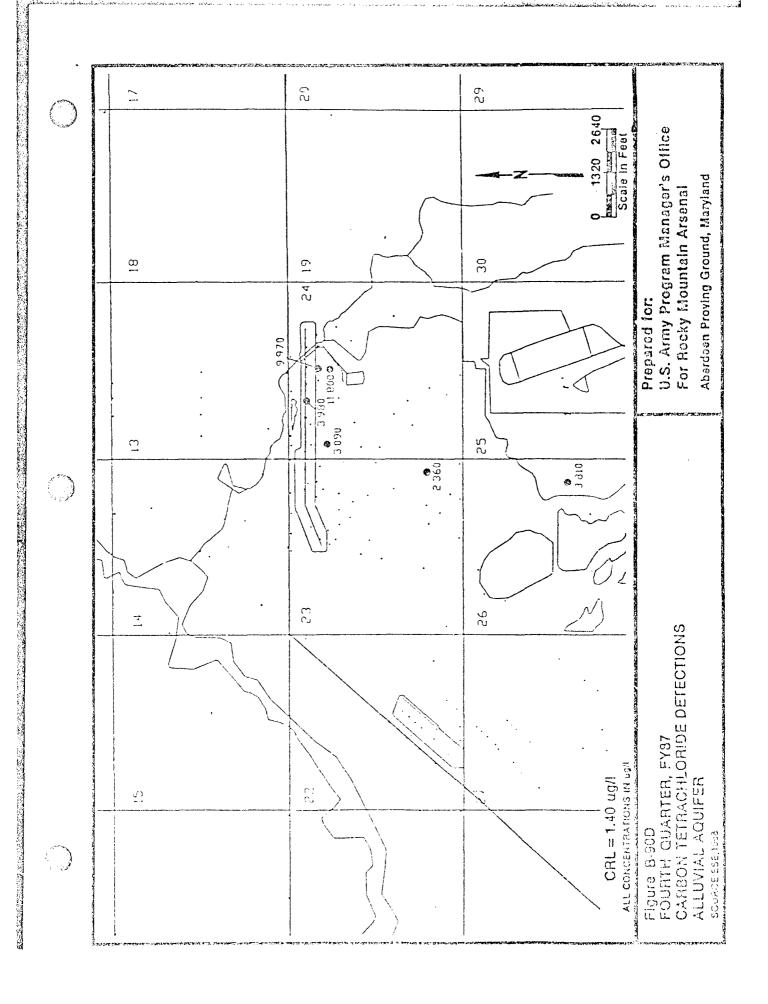


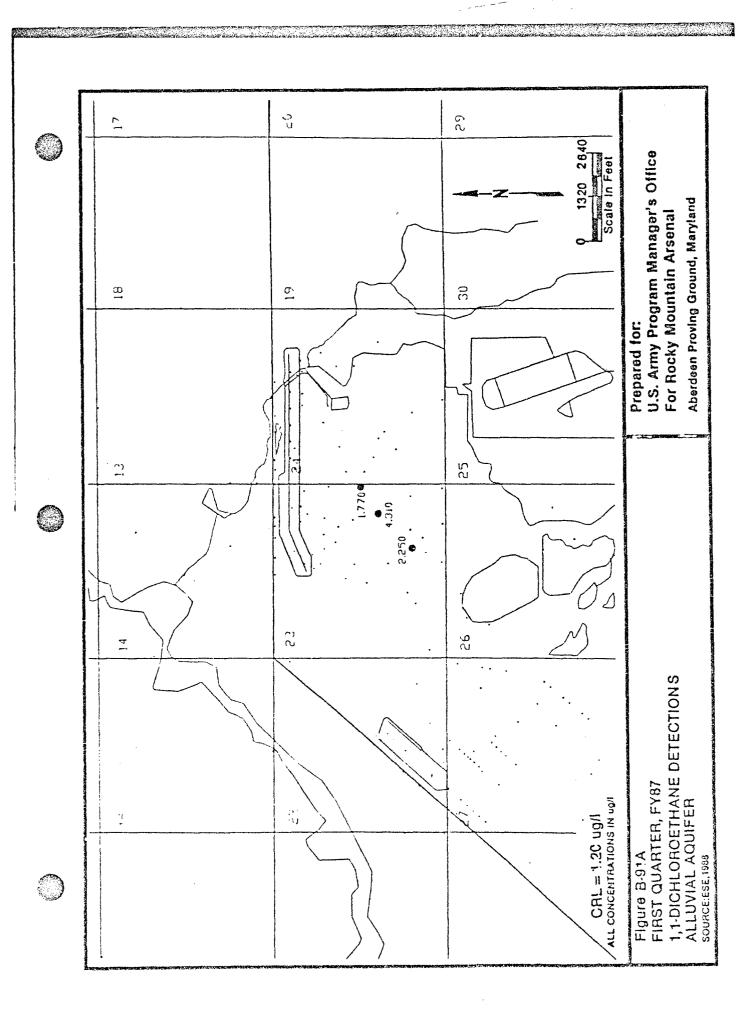
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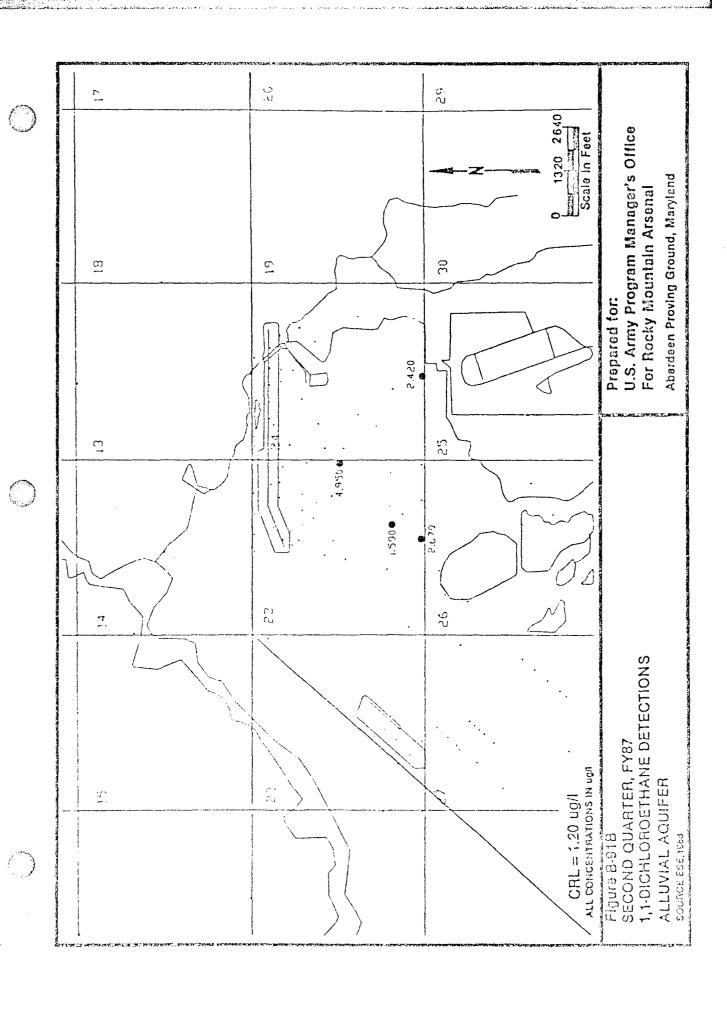


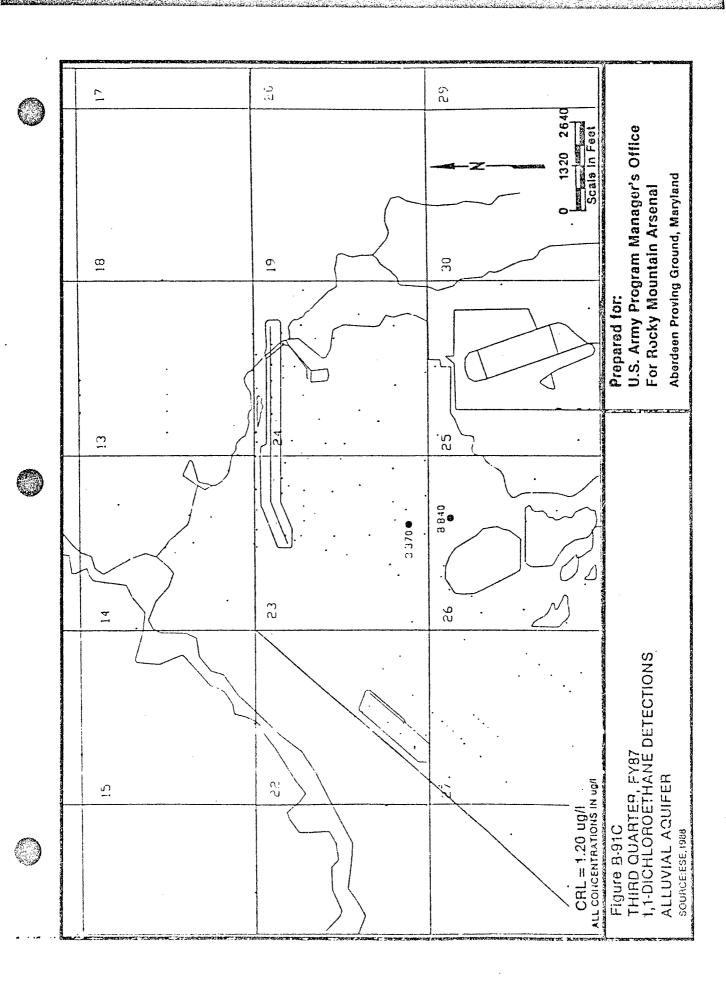


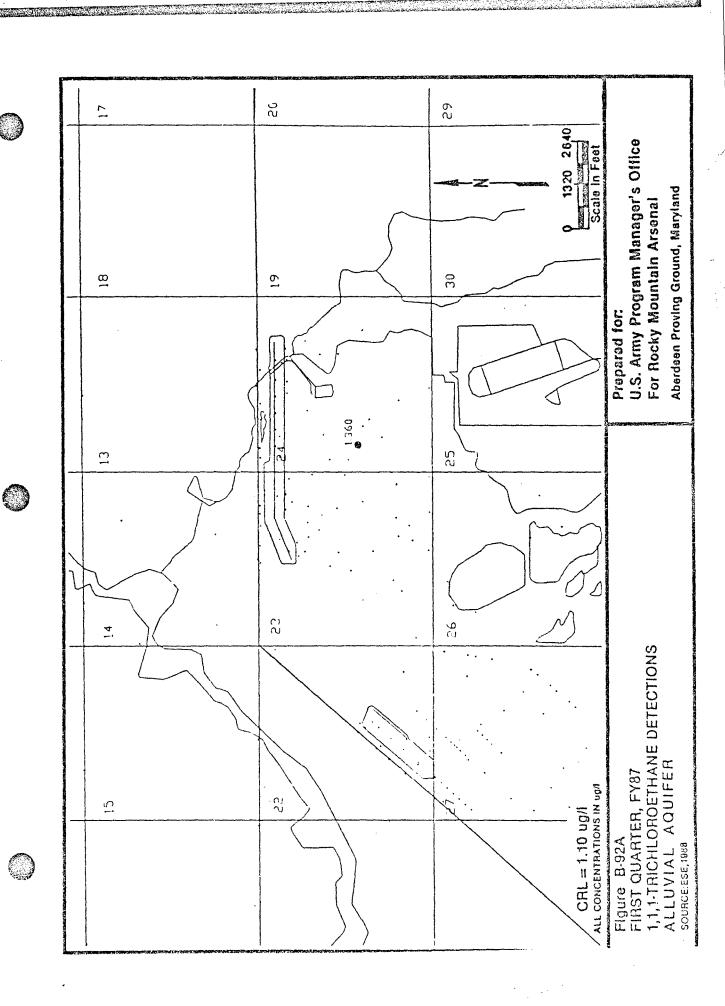


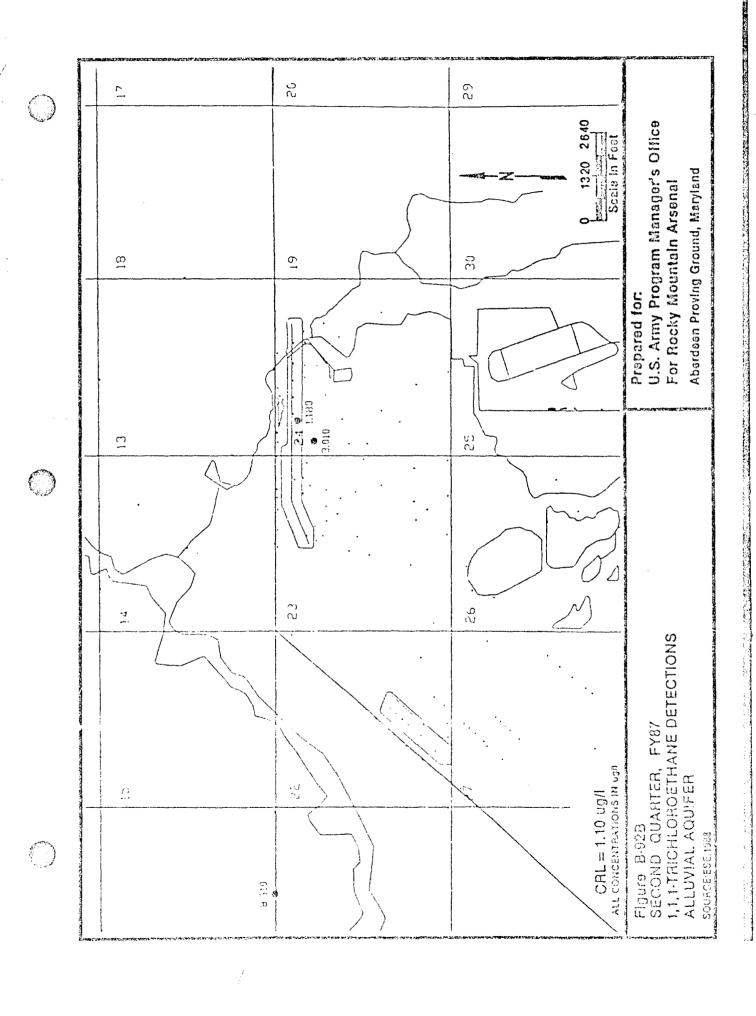


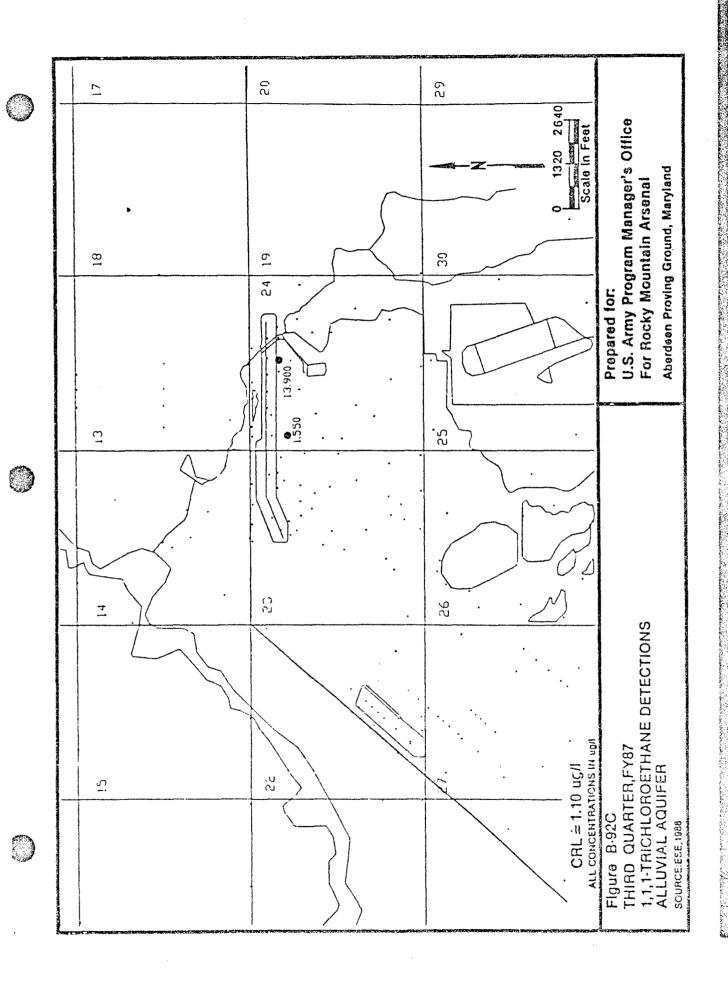


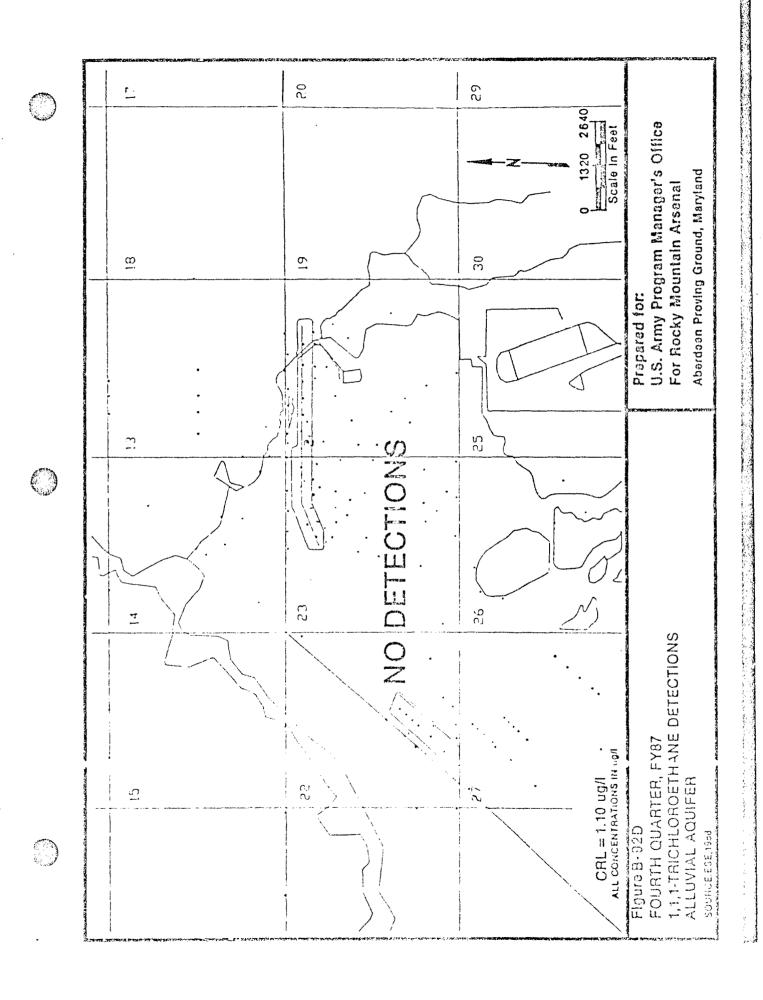


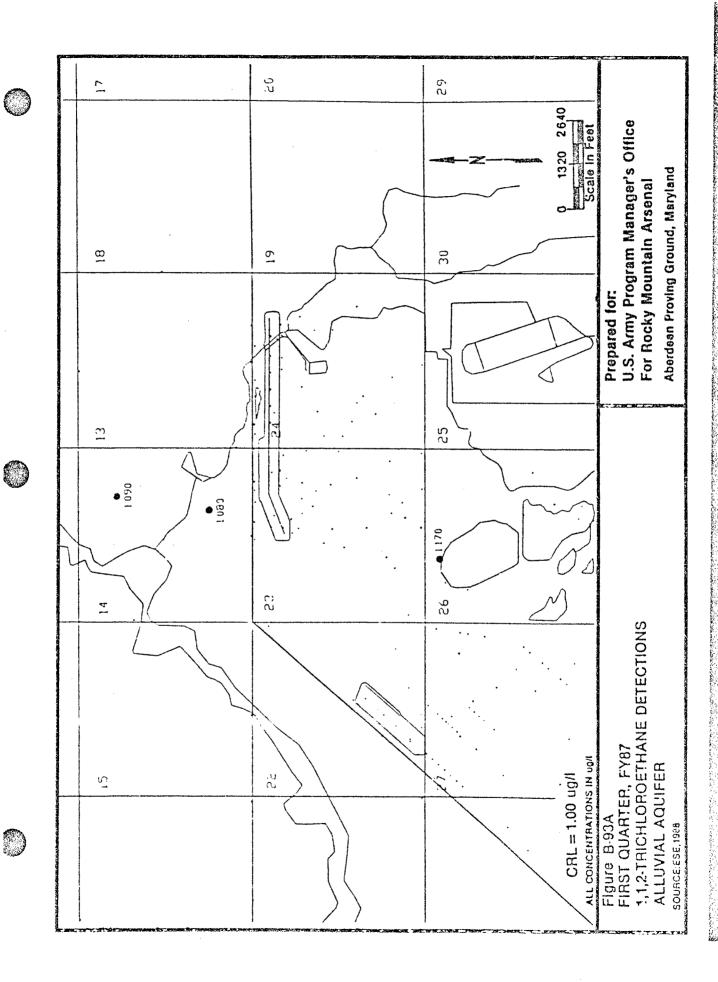


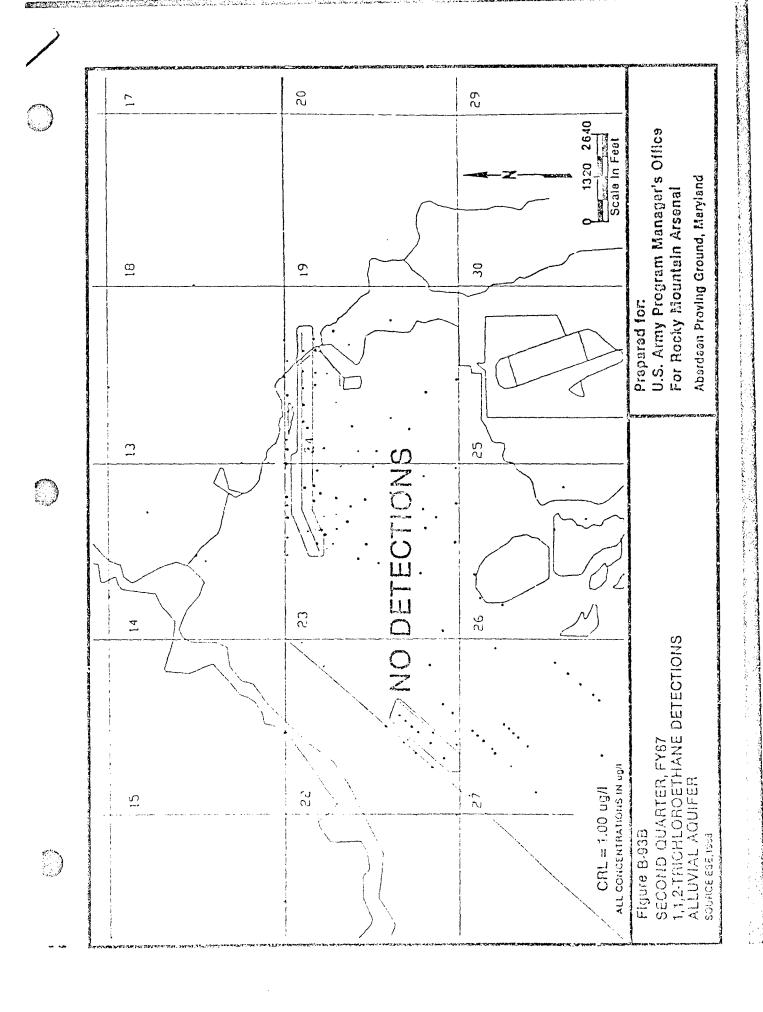




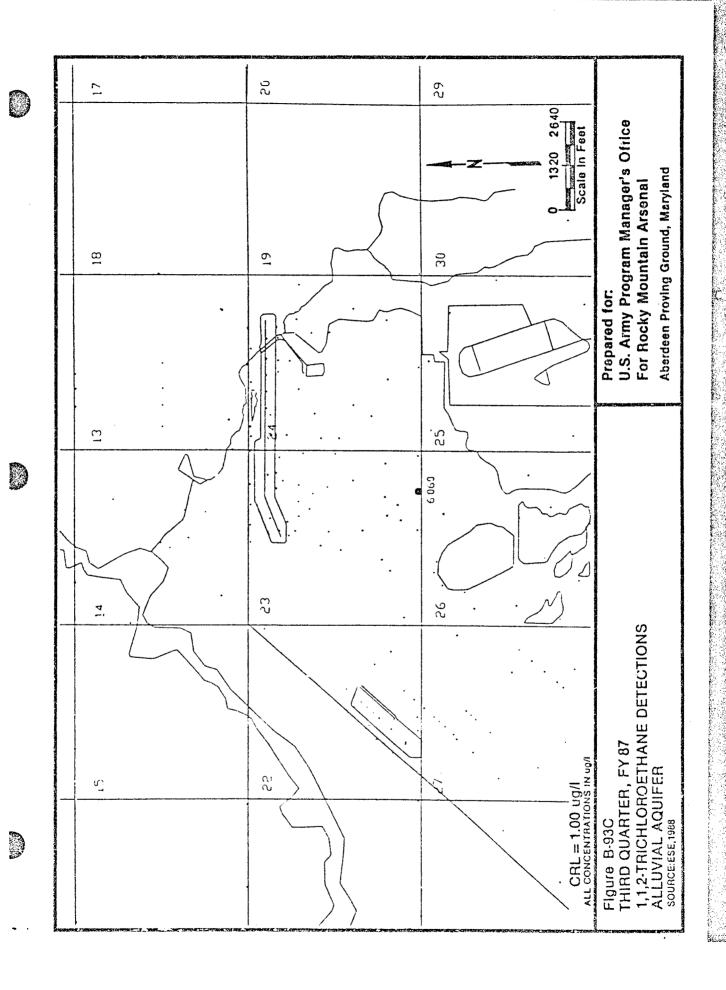


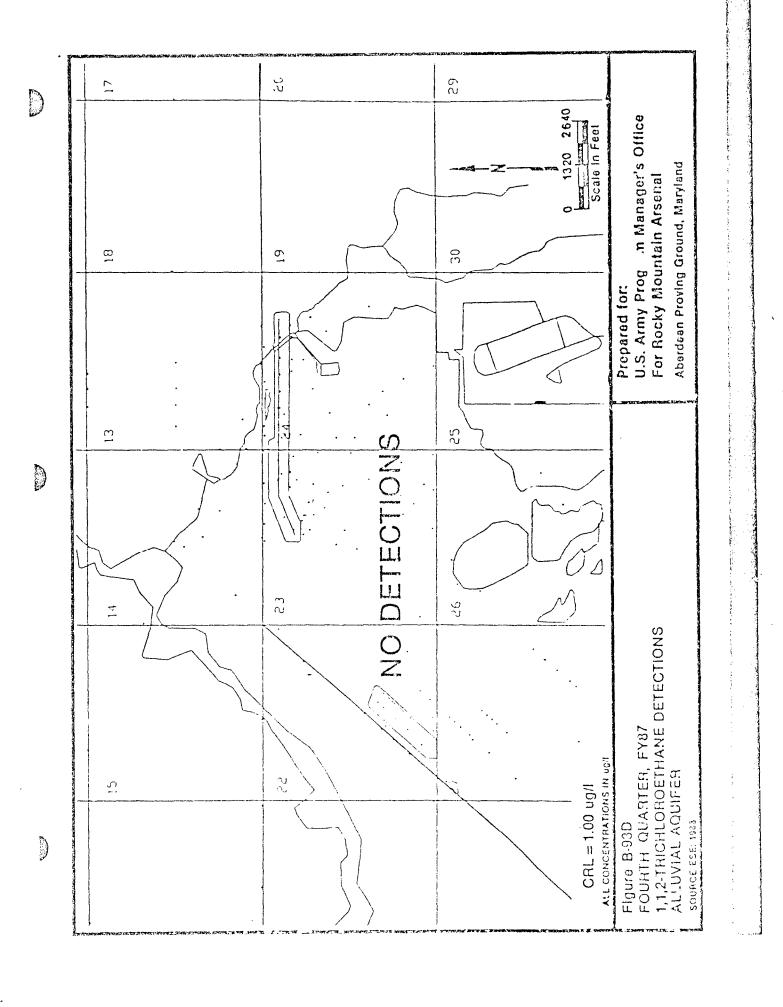




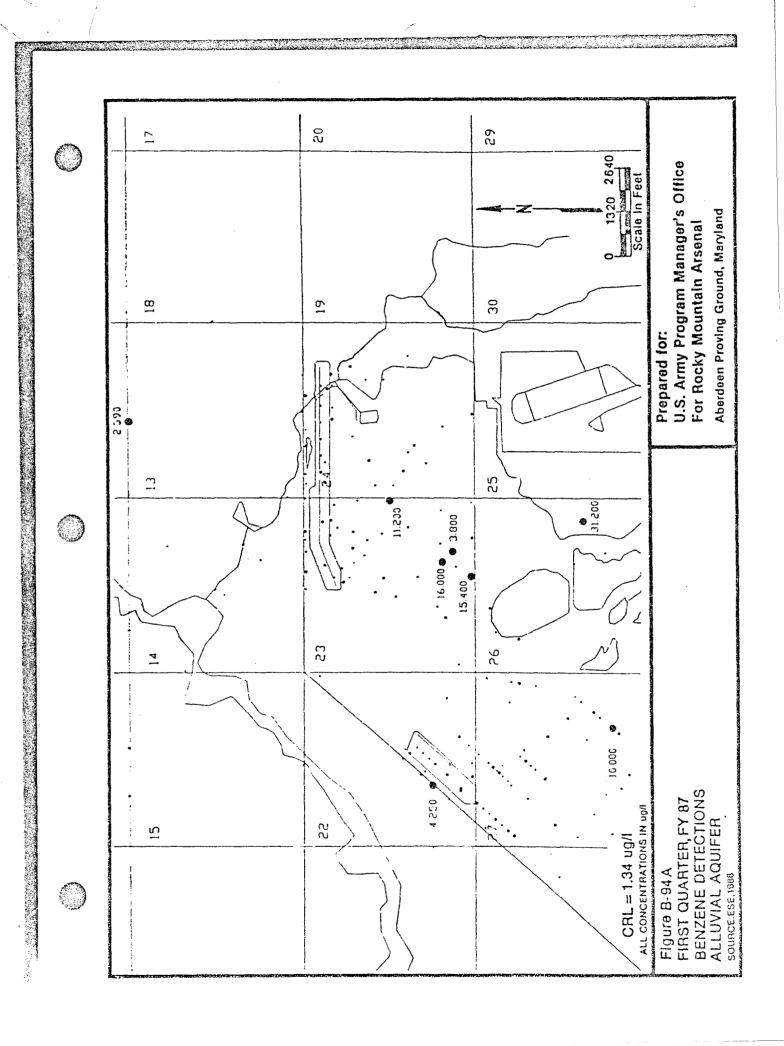


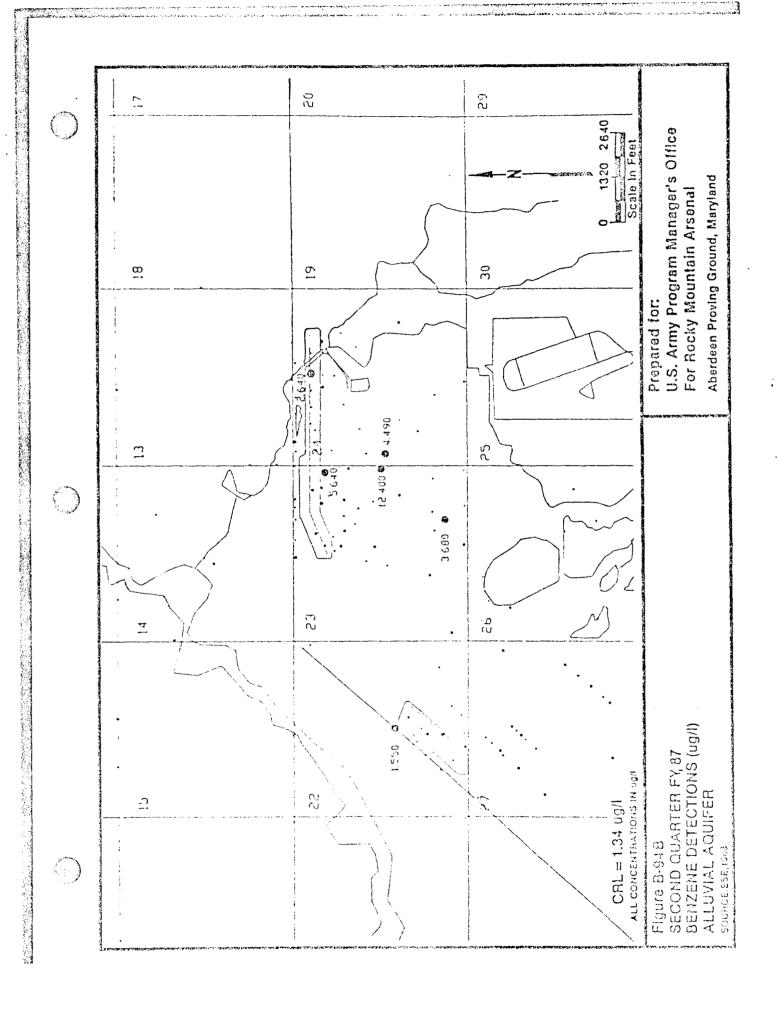
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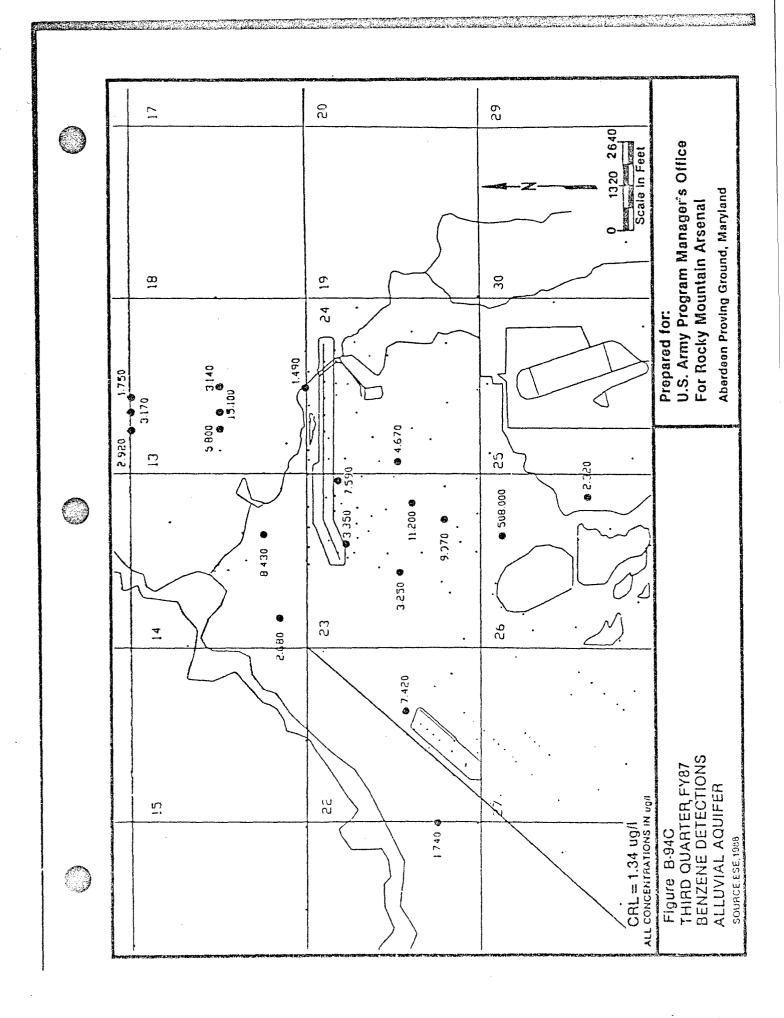


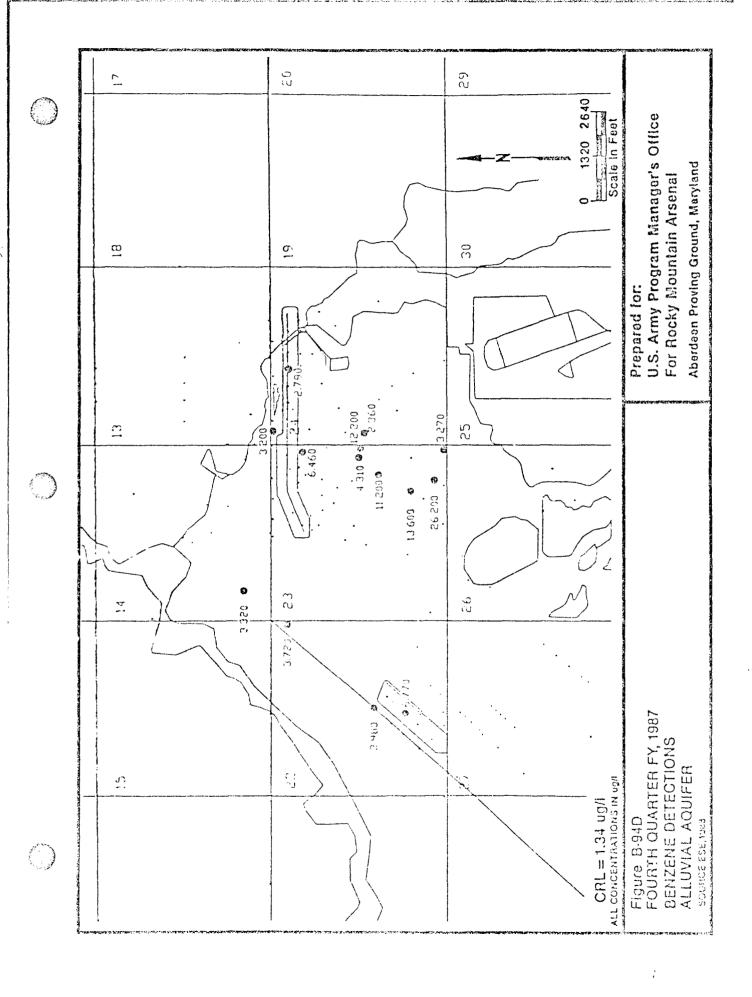


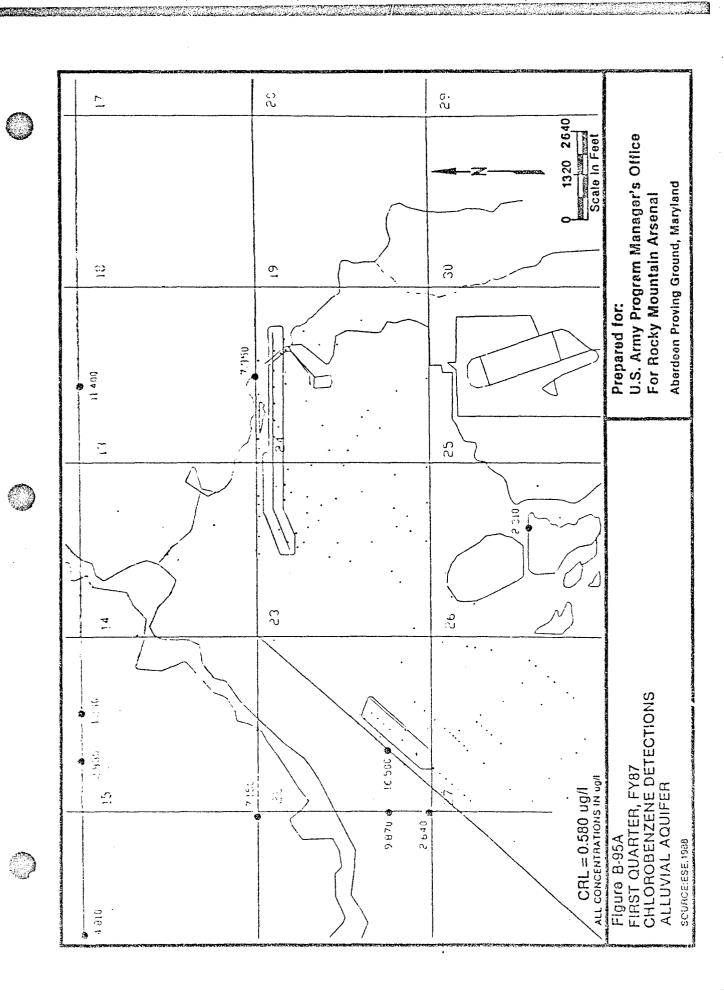
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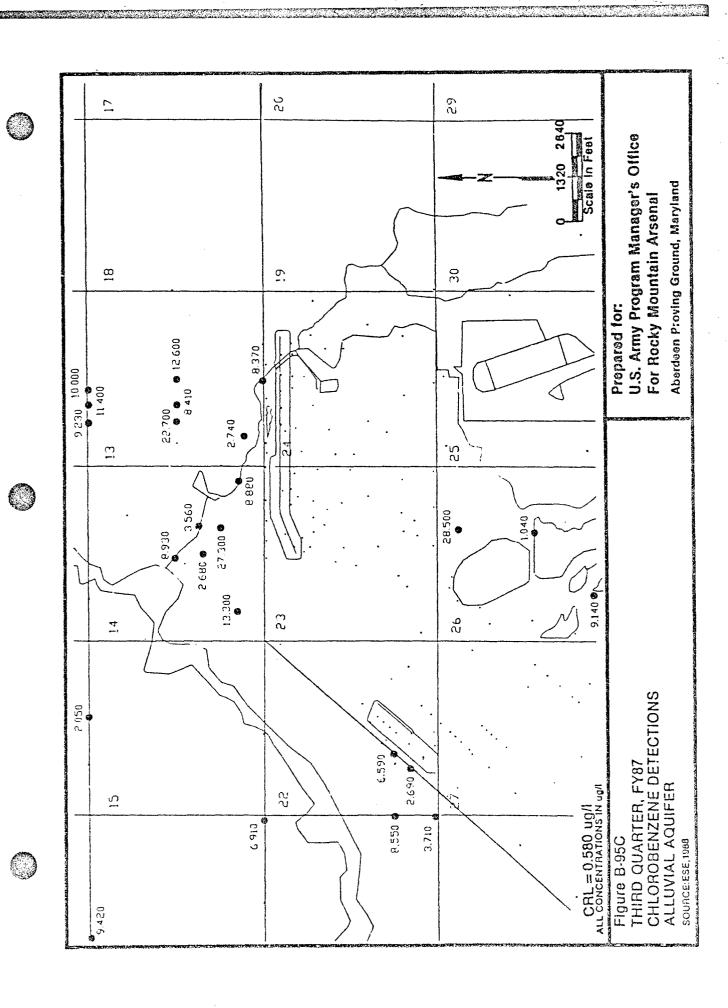


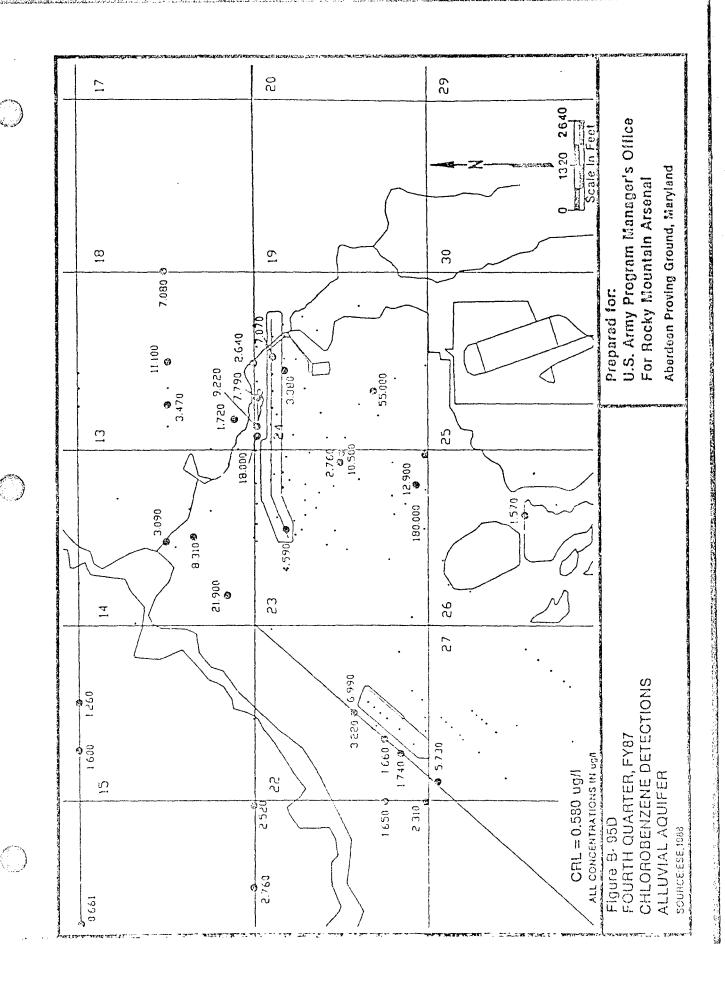


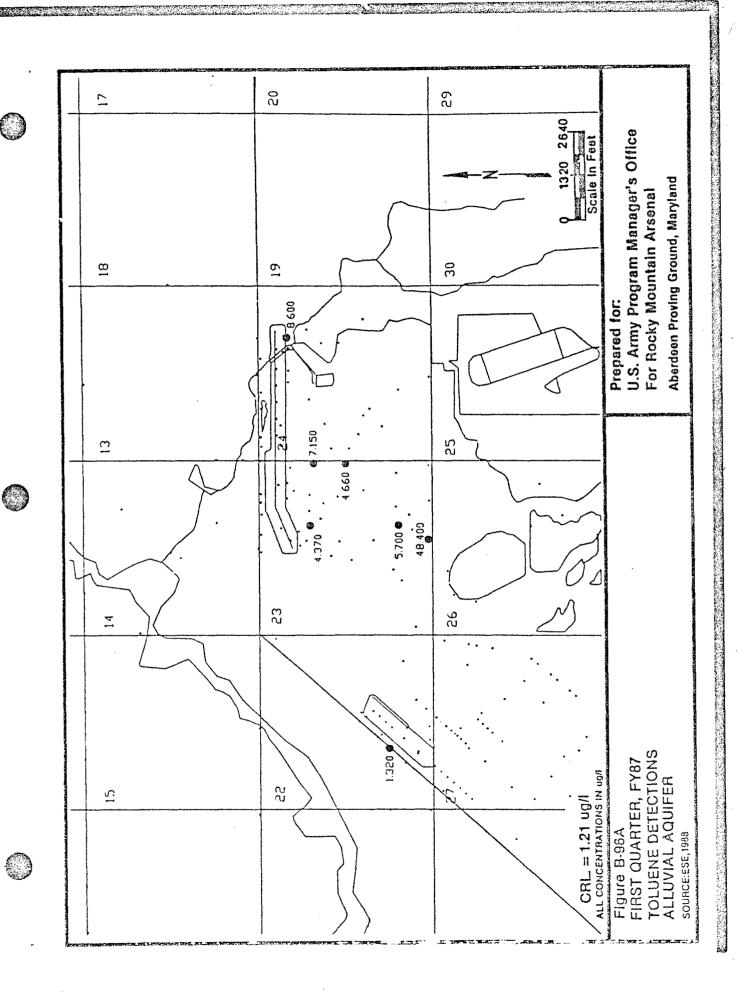


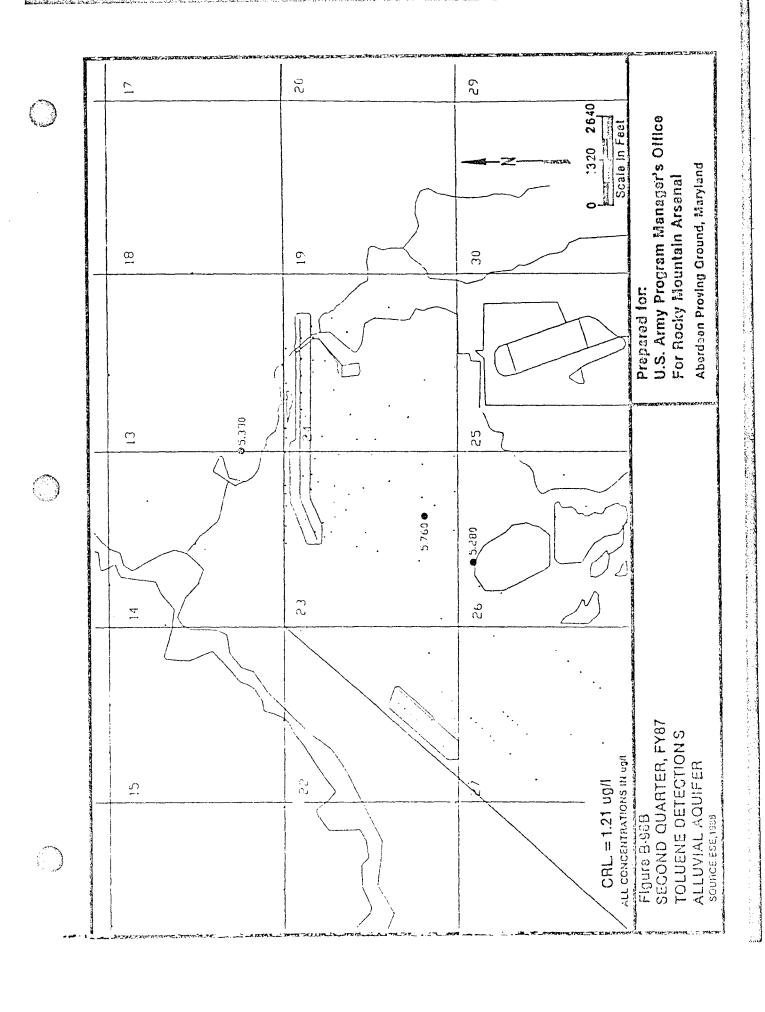


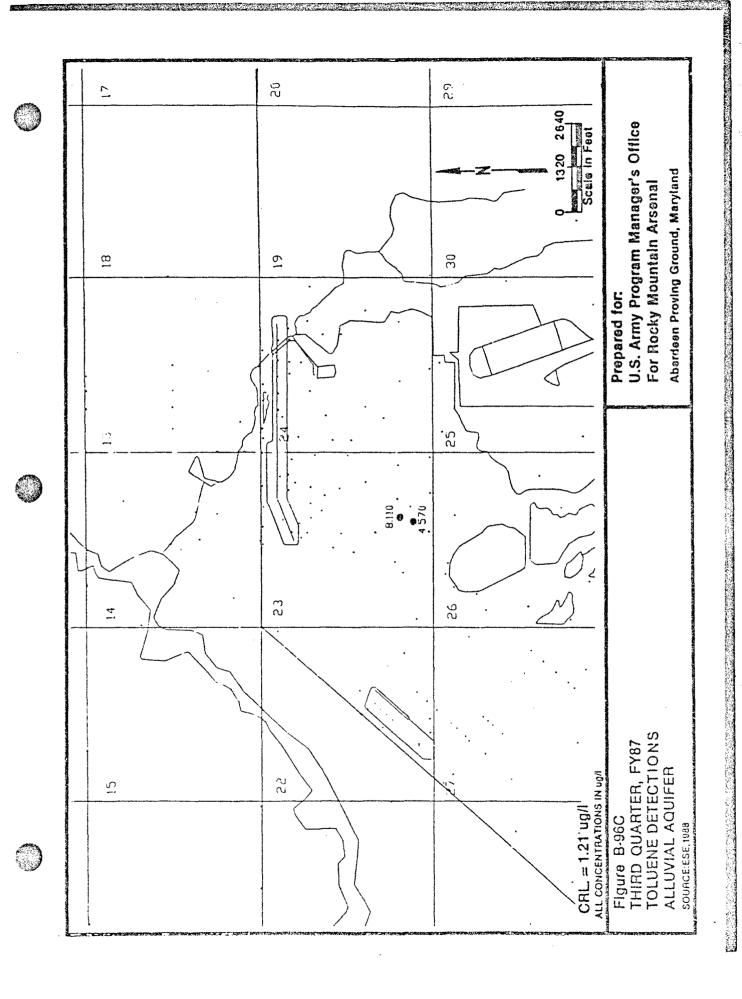


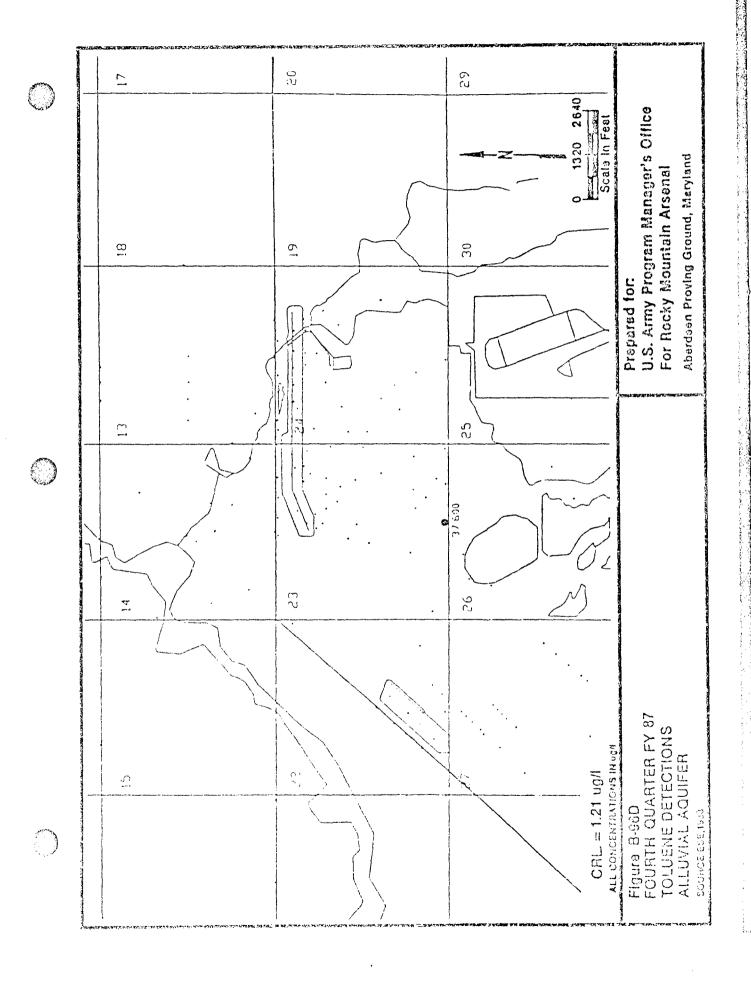


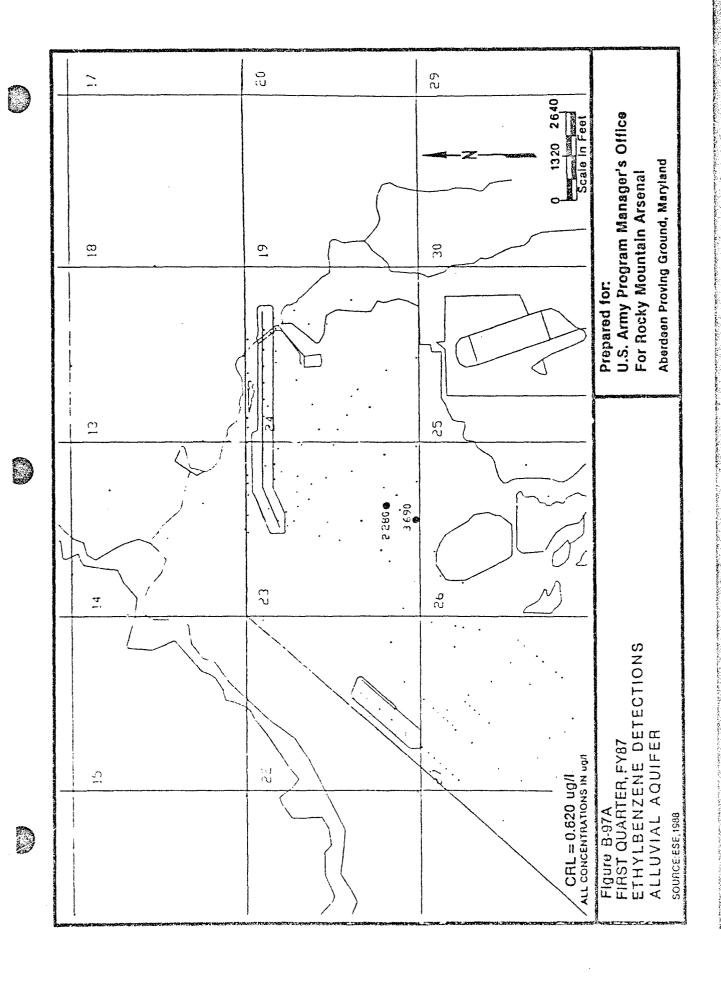


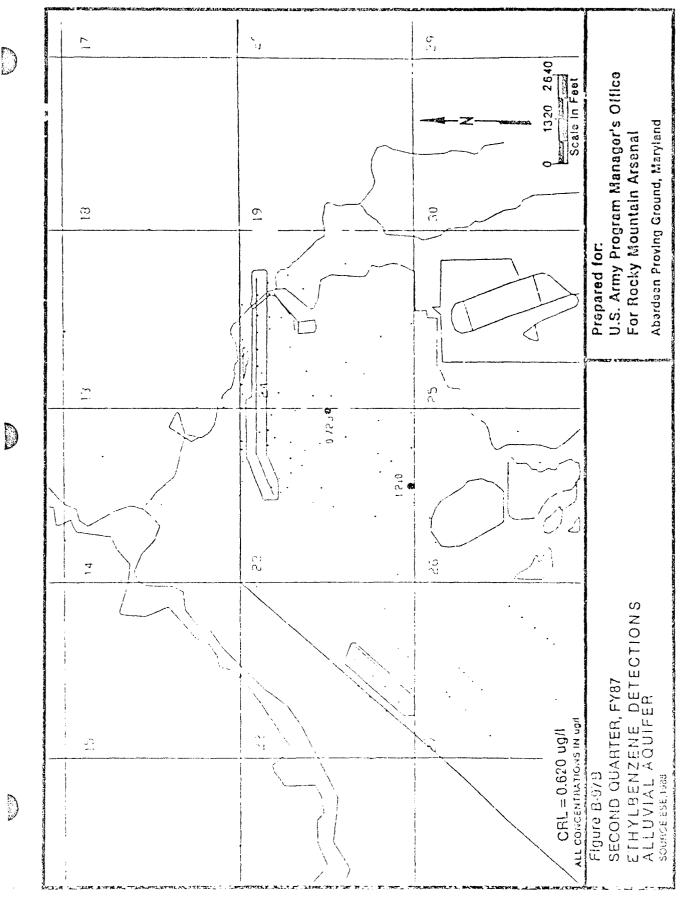












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